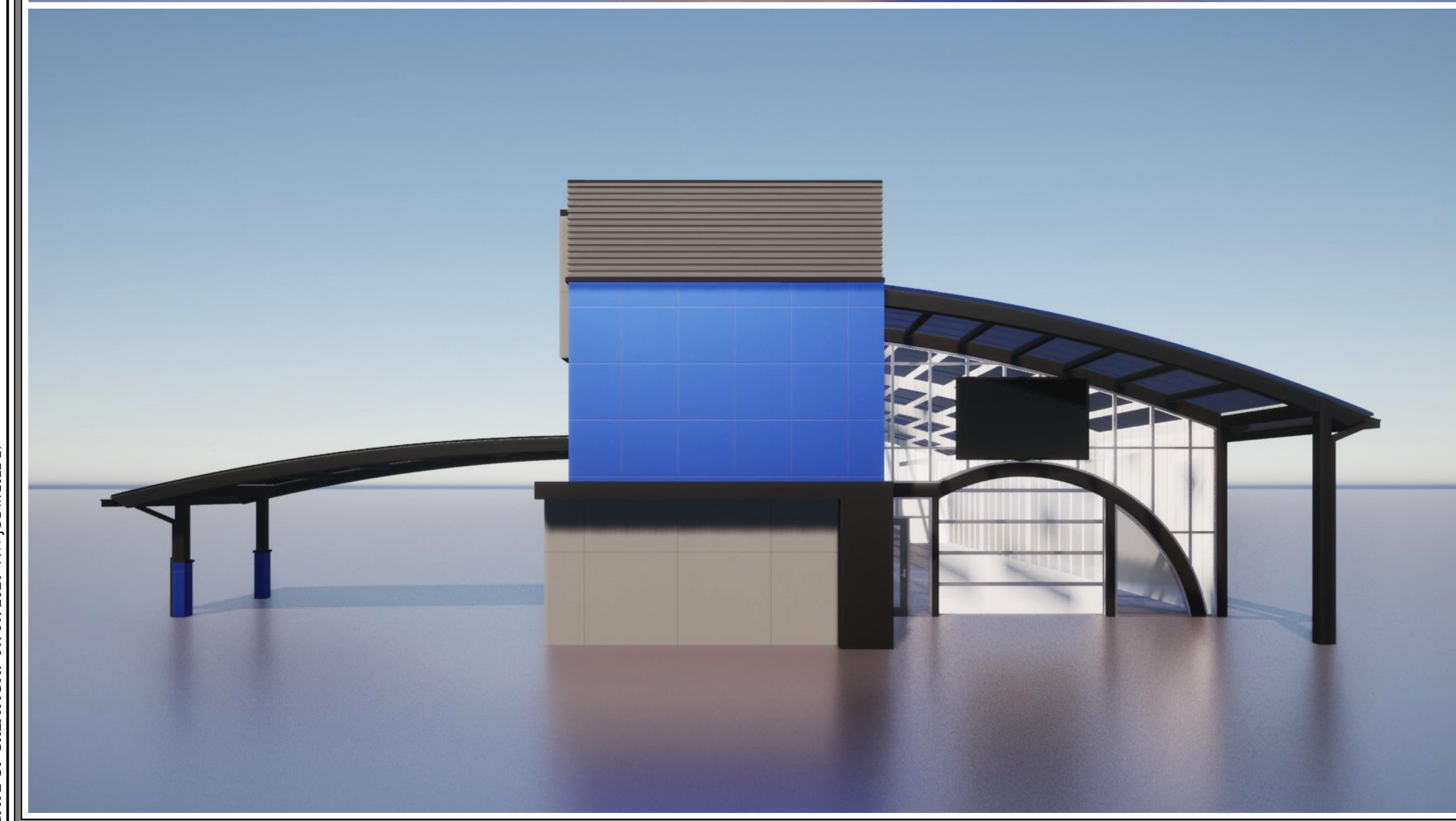




NEW CARWASH BUILDING FOR: TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



CONTACT US

PLEASE CONTACT MODERNWASH WITH QUESTIONS ABOUT THESE DRAWINGS, MATERIAL DELIVERY, FRAME ERECTION, AND/OR MATERIAL INSTALLATION.

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THESE DRAWINGS HAVE BEEN REVIEWED AND APPROVED ON THIS DATE OF 11/27/22. I UNDERSTAND MATERIALS WILL BE ORDERED BASED ON THIS SET OF DRAWINGS AND THAT CHANGES OR MODIFICATIONS AFTER THIS DATE WILL CONSTITUTE ADDITIONAL FEES BASED ON SAID CHANGE.

INITIALS: _____

SIGNATURE: _____

DATE: _____

NOTE:

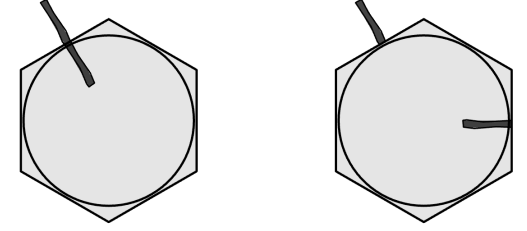
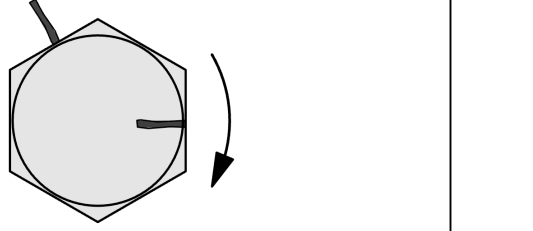
RENDERINGS ARE FOR REFERENCE ONLY. DESIGN MAY VARY. CONFIRM ALL DESIGN DETAILS WITH DRAWINGS.

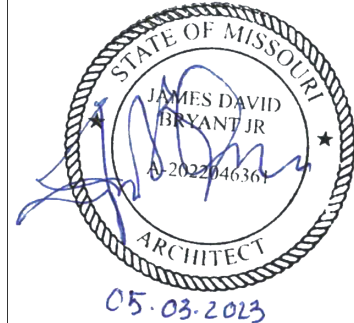
MODERNWASH DRAWING INDEX			Rev ID
GENERAL INFO			
MW-0.1	COVER SHEET		0
MW-0.2	NOTES & ABBREVIATIONS		0
MW-0.3	GENERAL INFORMATION		0
MW-0.4	GENERAL INFORMATION		0
MW-0.5	SITE PLAN		0
MW-0.6	LIFE SAFETY PLAN		0
FLOOR PLANS			
MW-1.1	1st FLOOR PLAN		0
MW-1.2	2nd FLOOR PLAN		0
MW-1.3	ROOF PLAN		0
MW-1.4	ROOF PANEL CUTSHEETS		0
MW-1.5	LGM WALL PLACEMENT		
REFLECTED CEILING PLANS			
MW-2.1	REFLECTED CEILING PLANS		0
ENLARGED PLANS			
MW-3.1	ENLARGED PLANS		0
MW-3.2	ENLARGED PLANS		0
ELEVATIONS			
MW-4.1	ELEVATIONS		0
SECTIONS			
MW-5.1	SECTIONS		0
MW-5.2	SECTIONS		0
MW-5.3	SECTIONS		0
MW-5.4	SECTIONS		0
DETAILS			
MW-6.1	WALL TYPES		0
MW-6.2	WALL/SLAB TYPES		0
MW-6.3	2D/3D DETAILS		0
MW-6.4	2D/3D DETAILS		0
MW-6.5	2D/3D DETAILS		0
MW-6.6	2D/3D DETAILS		0
MW-6.7	EIFS DETAILS		0
MW-6.8	STAIR DETAILS		0
MW-6.9	PVC DETAILS		0
MW-6.10	3D PVC & LGM DETAILS		0
MW-6.11	CRICKET DETAILS		0
SCHEDULES			
MW-7.1	SCHEDULES		0
MW-7.2	MATERIAL SPECS		0
MW-7.3	MATERIAL SPECS		0
MW-7.4	MATERIAL SPECS		0
OTHER			
MW-9.1	FLASHING/TRIM		0
MW-9.2	EIFS GRID LAYOUT		0
MW-9.3	EIFS GRID LAYOUT		0
MW-9.4	EQUIP GRATING LAYOUT		0
MW-9.5	SIGNAGE		

STURCTURAL SHEET INDEX			REV ID
STRUCTURAL NOTES			
S-0.1	STRUCTURAL NOTES		
PLANS & LGM FRAMING			
S-1.0	FOUNDATION PLAN		
S-1.1	SLAB & TRENCH PLAN		
S-1.2	LGM FRAMING PLAN		
DETAILS			
S-2.0	STRUCTURAL DETAILS		
S-2.1	TRENCH DETAILS		
STEEL FRAME			
S-3.0	COLUMN BASE PLATE & DETAILS		
S-3.1	COLUMN LAYOUT		
S-3.2	FRAMING PLAN		
S-3.3	TOWER FRAMING PLAN		
S-3.4	FRAMING SECTIONS		
S-3.5	FRAMING SECTIONS		
S-3.6	FRAMING DETAILS		
MEP SHEET INDEX			REV ID
MECHANICAL GENERAL			
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M-0.2	MECHANICAL SCHEDULES		
MECHANICAL PLANS			
M-1.0	MECHANICAL PLAN		
ELECTRICAL GENERAL			
E-0.1	ELECTRICAL NOTES & DETAILS		
E-0.2	EQUIPMENT SCHEDULES		
E-0.3	ELECTRICAL EQUIP. SCHEDULE		
E-0.4	ELECTRICAL EQUIP. SCHEDULE		
E-0.5	ELECTRICAL EQUIP. SCHEDULE		
E-0.6	ELECTRICAL SCHEDULES		
ELECTRICAL PLANS			
E-1.0	LIGHTING PLAN		
E-1.1	POWER PLAN - BUILDING		
E-1.2	EQUIPMENT LAYOUT		
E-1.3	POWER PLAN - EQUIPMENT (24V-208V)		
E-1.4	POWER PLAN - EQUIPMENT (480V)		
E-1.5	POWER PLAN - EQUIPMENT O.H. & U.G.		
PLUMBING GENERAL			
P-0.1	PLUMBING NOTES, DETAILS, & SCHEDULES		
P-0.2	WATER EQUIPMENT SCHEDULE		
P-0.3	WATER EQUIPMENT SCHEDULE		
P-0.4	AIR EQUIPMENT SCHEDULE		
P-0.5	AIR EQUIPMENT SCHEDULE		
PLUMBING PLANS			
P-1.0	WATER PLAN		
P-1.1	DWV & CHASE PLAN		
P-1.2	COMPRESSED AIR & GAS PLAN		
P-1.3	GAS PLAN		
P-1.4	DWV RISER DIAGRAM		

**SHEET INDEX TO BE
UPDATED ONCE MEP &
STRUCTURAL DRAWINGS
ARE RECEIVED.**

11/27/22

GEN-V7 A. MODERNWASH - GENERAL NOTES: - THESE NOTES ARE INTENDED AS AN ADDITIONAL INSTRUCTION TO THE DRAWINGS AND SPECIFICATIONS AND ARE NOT ALL INCLUSIVE. - SOME ITEMS LISTED BELOW MAY NOT APPLY TO THIS PROJECT. 1. MODERNWASH DOCUMENTS INCLUDE: - THE MW DRAWING SET. - STAMPED STEEL FRAME ENGINEERING, AND - STAMPED FRAME INSTALL GUIDE. - SEE FRAME ENGINEERING FOR ALL COLUMN REACTIONS/LOADING. 2. ITEMS/MATERIALS NOT SUPPLIED BY MODERNWASH INCLUDE: - STAMPED ARCHITECTURAL DRAWINGS ** - CIVIL AND/OR LANDSCAPE ARCHITECTURAL DRAWINGS - STAMPED ENGINEERING DRAWINGS ** INCLUDING : SLAB/FOUNDATION, LIGHT GAUGE METAL (LGM), FRAMING, MECHANICAL/ELECTRICAL, & PLUMBING DRAWINGS - ALUMINUM STOREFRONT FRAMES & GLAZING - ALUMINUM STOREFRONT DOORS - WOOD &/OR HOLLOW METAL DOORS - OVERHEAD &/OR ROLLUP DOORS ** - CABINETRY/CASEWORK ** - BLOCKING, SHEATHING, &/OR DECKING (M-BOARD **) - INSULATION - INCLUDING RIGID, MINERAL BATT, FIBERGLASS, ETC. - DRYWALL/GYPSUM WALL BOARD FINISHES - TAPE, TEXTURE, MUD, SMOOTH, FINISH - FLOOR COVERINGS/FINISHES - WALL BASE & MOLDINGS - CONCRETE &/OR CONCRETE BLOCK (CMU) - PLUMBING FIXTURES & TOILET ROOM ACCESSORIES - MECHANICAL EQUIPMENT - CAR WASH EQUIPMENT DRAWINGS OR EQUIPMENT ** - VAPOR BARRIER - PAINT & FINISHES EJECTION AND INSTALLATION BY OTHERS ** DENOTES ITEMS THAT CAN BE SUPPLIED BY MODERNWASH. CONTACT MODERNWASH TO REQUEST OPTIONS &/OR A QUOTE. 3. THESE MODERNWASH DRAWINGS, INCLUDING THE MATERIAL TAKEOFF LIST, ARE TO BE USED ONLY FOR THE ADDRESSES LISTED ON THE TITLE BLOCK. THE USE OF THESE DRAWINGS FOR ANY OTHER LOCATION IS STRICTLY PROHIBITED. THE CONTRACTOR AND/OR OWNER IS ONLY TO USE THESE DRAWINGS FOR INSTALLATION OF THE MODERNWASH PACKAGE/KIT AND ARE NOT TO BE USED TO PRICE MATERIALS PROVIDED BY MODERNWASH. USE OF THESE DRAWINGS IN A MAJOR OTHER THAN INTENDED WILL RESULT IN LEGAL ACTION BY MODERNWASH. 4. THESE DRAWINGS AND ANY SUPPLEMENTAL DRAWINGS OR DOCUMENTS ARE THE PROPERTY OF AND REMAIN THE PROPERTY OF MODERNWASH PRIOR TO, DURING AND AFTER CONSTRUCTION. RECEIPT OF ANY OF THESE DOCUMENTS DOES NOT TRANSFER OWNERSHIP. 5. QR (QUICK RESPONSE) CODES ARE UTILIZED IN MODERNWASH DRAWING SET TO SUPPLY INFORMATION OR LINKS TO INFORMATION. THIS INCLUDES BUT IS NOT LIMITED TO CONTACT INFORMATION, WEB LINKS, LINKS TO CURRENT DRAWINGS, QR READER APPS (APPLICATIONS) ARE AVAILABLE FOR SMART PHONES AND/OR OTHER MOBILE DEVICES. 6. DRAWINGS TO BE DISTRIBUTED ONLY IN FULL SETS. DISTRIBUTION OF INDIVIDUAL SHEETS OR PARTIAL SETS IS NOT PERMITTED. 7. DRAWINGS ARE FORMATTED TO 24X36 (ARCH D SHEET) PRINTED AT A SCALE OF 100%. PRINTING IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR AND MODERNWASH RECOMMENDS PRINTING AT FULL SIZE. 8. IF MATERIAL OR DESIGN CHANGES ARE REQUIRED THAT DEViate FROM THESE CONSTRUCTION DOCUMENTS, THEN IT IS THE RESPONSIBILITY OF THE ARCHITECT, OWNER, AND/OR GENERAL CONTRACTOR TO NOTIFY MODERNWASH. THIS INCLUDES, BUT IS NOT LIMITED TO LGM STUD SIZE/LOCATION, INSULATION REQUIREMENTS, FINISH TYPE/COLOR, ETC. 9. COLOR CONFIRMATION WHEN PROJECT IS ORDERED AND PLACED ON THE FABRICATION SCHEDULE MODERNWASH GENERATES AND SENDS A COLOR CONFIRMATION SHEET TO BE SIGNED BY THE OWNER APPROVING COLORS AS DESIGNED. MATERIALS AFFECTED BY THE CONFIRMATION SHEET WILL NOT BE ORDERED OR FABRICATED UNTIL SIGNED AND RETURNED TO MODERNWASH. 10. MODERNWASH MAY LIST ANY AND ALL MATERIALS SHOWN IN THE RENDER/BUILDING MODEL. THIS HELPS TO CLARIFY WITH OWNER AND/OR DESIGN REVIEW BOARD. LISTING THE MATERIALS NOT IN THE MODERNWASH SCOPE DOES NOT CONFIRM THE MATERIAL IS SUPPLIED BY MODERNWASH. SEE SCOPE/QUOTE ON OR AFTER RELEASE FOR PRODUCTION/FABRICATION. 11. IBC CONSTRUCTION CLASSIFICATION FOR A TYPICAL MODERNWASH BUILDING IS TYPE 5B (IF MAX HEIGHT IS 40' OR LESS, 2 STORIES OR LESS ABOVE GRADE AND MAXIMUM OF 9,000 SF PER FLOOR WITH NO AUTOMATIC FIRE SUPPRESSION) 12. QUESTIONS ABOUT OR CLARIFICATIONS TO THE DOCUMENTS FROM THE GC SHALL BE SUBMITTED IN WRITING TO MODERNWASH AND/OR THE ARCHITECT FOR REVIEW AND WRITTEN RESPONSE. GC SHALL USE MODERNWASH RFI FORM (REQUEST FOR INFORMATION) FOR PROJECT RELATED QUESTIONS AND/OR CLARIFICATIONS. 13. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM MODERNWASH VIA MODERNWASH RFI BEFORE PROCEEDING. 14. MODERNWASH SHALL BE NOTIFIED IMMEDIATELY FOR ANY CONFLICT IN THE CONSTRUCTION DOCUMENTS. 15. A REPRESENTATIVE FROM MODERNWASH CAN BE SCHEDULED TO MAKE A SITE VISIT (POSSIBLE ADDITIONAL CHARGES) TO REVIEW INSTALLATION PROCEDURES AND OTHER CONTRACTOR QUESTIONS WITH THE GENERAL CONTRACTOR AND/OR SUBCONTRACTORS. A SITE VISIT CAN INCLUDE, BUT ARE NOT LIMITED TO: PRE-CONSTRUCTION MEETING, CONSTRUCTION DOCUMENT REVIEW, CONSTRUCTION SEQUENCE SCHEDULE, THE GENERAL CONTRACTOR AND/OR OWNER IS TO CONTACT MODERNWASH TO SCHEDULE SAID VISIT. ADDITIONAL VISITS AS REQUESTED ARE TO BE COORDINATED WITH MODERNWASH FOR SCHEDULING AND ANY ADDITIONAL FEES. 16. ANY AND ALL DEVIATIONS FROM THE PERMITTED CONSTRUCTION DOCUMENTS MADE AFTER PERMITTING ARE TO BE COORDINATED WITH MODERNWASH AND/OR THE ARCHITECT. CHANGES MADE DURING CONSTRUCTION ARE DIRECTED BY OWNER AND/OR CONTRACTOR THAT VARY FROM THE PERMITTED CONSTRUCTION DOCUMENTS AND ARE NOT CONFIRMED WITH MODERNWASH AND/OR THE ARCHITECT BECOME THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR. B. NOTES FOR GC - GENERAL CONTRACTOR: - COORDINATION OF THE VARIOUS TRADES WITH RESPECT TO THESE DOCUMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. - GENERAL CONTRACTOR AND SUBS ARE RESPONSIBLE FOR COORDINATING WORK WITH ALL CONSTRUCTION DOCUMENTS. ANY CONSTRUCTION ACTIVITIES PERFORMED THAT ARE NOT DESCRIBED IN CONSTRUCTION DOCUMENTS BECOME THE RESPONSIBILITY OF SAID CONTRACTOR OR SUB. - IT IS THE RESPONSIBILITY OF THE CONTRACTOR(S) TO VERIFY ALL FIELD CONDITIONS PRIOR TO SUBMITTING PROJECT BIDS, ORDERING MATERIALS, GENERATING SHOP DRAWINGS AND SUBMITTALS AND START OF WORK. THE ARCHITECT AND/OR MODERNWASH SHALL NOT BE HELD LIABLE FOR UN-VERIFIED FIELD CONDITIONS. - CONTRACTOR & SUBS ARE RESPONSIBLE FOR CONFIRMING WITH MODERNWASH & EQUIPMENT SUPPLIER THAT THEY HAVE THE LATEST SET OF CONSTRUCTION DOCUMENTS, PRIOR TO START OF PROJECT. - WORK PERFORMED FROM THESE PLANS PRIOR TO ALL CODE AND ZONING APPROVALS IS AT THE RISK AND RESPONSIBILITY OF THE CONTRACTOR AND/OR OWNER. - CONTRACTORS SHALL WARRANT THEIR RESPECTIVE CONSTRUCTION AND WORK TO BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL LAWS, AUTHORITIES HAVING JURISDICTION, AND MANUFACTURER'S INSTALLATION AND WARRANTY REQUIREMENTS. - CONTRACTORS SHALL PROVIDE ALL REQUIRED LABOR AND MATERIALS TO ACHIEVE INDUSTRY STANDARD OF MEANS AND METHODS TO ACHIEVE THE DESIGN INTENT OF THE CONTRACT DOCUMENTS REGARDLESS WHETHER OR NOT DOCUMENTED HEREIN; CONSIDERATIONS FOR ADDITIONAL LABOR OR MATERIAL COST ON THE BASIS OF OMISSIONS SHALL NOT BE GRANTED. - CONTRACTOR TO PROVIDE AND INSTALL EIGHT SIGNAGE AND/OR LIGHTING IN ACCORDANCE TO THE CURRENT INTERNATIONAL BUILDING CODE (IBC) OR LOCAL BUILDING CODE. - CONTRACTOR TO PROVIDE AND INSTALL FIRE EXTINGUISHERS IN ACCORDANCE TO CURRENT IBC, IFC, OR LOCAL CODE. - GC TO COORDINATE LOCATIONS OF FIRE EXTINGUISHERS AND SEMI-RECESSED WALL CABINETS DESIGNATED AS FE (BRACKET EXTINGUISHER) OR FEC (EXTINGUISHER IN CABINET) WITH THE LOCAL FIRE MARSHAL. (SUPPLIED BY OTHERS). - IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVENTORY MATERIALS WITHIN 72 HOURS OF DELIVERY TO THE JOB SITE. ITEMS DELIVERED INCLUDE A PACKING LIST AND SHOULD BE CHECKED FOR QUANTITY AND SHIPPING RELATED DAMAGE. CONTRACTOR IS TO CONTACT MODERNWASH IN WRITING WITH ANY MISSING OR DAMAGED ITEMS WITHIN 72 HOURS. AFTER 72 HOURS ALL MATERIALS OR ALL MATERIALS NOT INCLUDED IN A SUBMITTED REQUEST ARE GEN-V7 ASSUMED TO BE ON SITE AND UNDAMAGED. ITEMS REQUESTED AFTER 72 HOURS ARE TO BE QUOTED BY MODERNWASH FOR MATERIAL AND SHIPPING CHARGES. 12. UPON RECEIVING DELIVERY OF MATERIALS SUPPLIED BY MODERNWASH TO THE SITE, SAID MATERIALS BECOME THE RESPONSIBILITY OF THE CONTRACTOR. STORAGE, HANDLING, INSTALLATION, AND ANY DAMAGES ARE THE RESPONSIBILITY OF THE CONTRACTOR/OWNER. 13. BUILDING ERECTION - THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION OF THE STEEL AND ASSOCIATED WORK IN COMPLIANCE WITH THE STEEL FRAME ENGINEERING. SEE STEEL FRAME INSTALLATION/ERECTION NOTES. 14. PLACEMENT OF LGM WALL FRAMING IS TO BE DONE BASED ON THESE DRAWINGS. IF LOCATION IS IN QUESTION CONTACT MODERNWASH. VARIATION OF LGM PLACEMENT MAY EFFECT FINISH MATERIAL, TRIMS, ETC., AND BECOMES THE RESPONSIBILITY OF THE CONTRACTOR/OWNER. 15. IT IS THE CONTRACTORS RESPONSIBILITY TO REFER TO AND FOLLOW THE MANUFACTURERS SPECIFICATIONS FOR EACH MATERIAL INSTALLATION REQUIREMENTS AND PROCEDURES. MODERNWASH PROHIBITS INSTALLATION OF MATERIALS IN TEMPERATURES AT OR BELOW 32°F. 16. SOME MATERIALS ARE SHIPPED/DELIVERED WITH A PROTECTIVE FILM. THESE INCLUDE, BUT ARE NOT LIMITED TO: ACM PANEL, TRIMS/FLASHINGS, METAL WALL/ROOF PANELS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE THE PROTECTIVE FILM DURING INSTALLATION OF SAID PANEL OR SHORTLY THEREAFTER. 17. IF PLYWOOD OR ZIP SHEATHING IS SUBSTITUTED WITH ANOTHER SHEATHING PRODUCT, THEN THE CONTRACTOR IS RESPONSIBLE FOR THE POSSIBLE CHANGE OR MODIFICATION OF THE FINISH MATERIAL ATTACHMENT TO THE SUBSTRATE. 18. WINDOW/DOOR AND ALL WALL/ROOF PENETRATIONS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR/SUB TO WATER TIGHT/SEAL AND FLASH. USE INDUSTRY STANDARD AND BEST PRACTICE. 19. CONTRACTOR AND/OR OWNER IS TO KEEP MODERNWASH INFORMED OF SCHEDULING AND PROGRESS ON SITE. THESE PARTIES ARE ALSO REQUIRED TO PROVIDE PROGRESS PHOTOS THROUGHOUT CONSTRUCTION STARTING WHEN BREAKING GROUND (PREFERABLY WEEKLY UPDATES). MODERNWASH HAS THE AUTHORITY TO SCHEDULE SHIPMENTS BASED ON COMPLETION ON SITE. C. NOTES PERTAINING TO MATERIALS: - SPECIFIED MATERIALS SHOWN IN DRAWINGS SUPPLIED BY MODERNWASH MAY BE SUBSTITUTED BY MODERNWASH FOR ANOTHER MANUFACTURER'S MATERIAL OF SIMILAR TYPE AND SPECIFICATION BASED ON AVAILABILITY, DELIVERY SCHEDULE, COLORS AVAILABILITY, ETC. - OTHER MATERIALS CAN BE SUBSTITUTED BASED ON ARCHITECT/OWNER APPROVAL. - MATERIALS BY OTHERS - ALL INTERFACE AND COMPATIBILITY OF ANY MATERIALS NOT FURNISHED BY MODERNWASH ARE THE RESPONSIBILITY OF AND TO BE COORDINATED BY THE GENERAL CONTRACTOR AND/OR ARCHITECT. UNLESS SPECIFIC DESIGN CRITERIA CONCERNING ANY INTERFACE BETWEEN MATERIALS IF FURNISHED AS A PART OF THE ORDER DOCUMENTS, MODERNWASH'S ASSUMPTIONS WILL GOVERN. - CONTRACTOR IS TO INFORM MODERNWASH WHEN ANCHOR BOLTS ARE NEEDED ON SITE. MODERNWASH REQUIRES A 2 WEEK NOTICE MINIMUM AND SHIPPING ADDRESS. SLAB AND FOUNDATION DRAWINGS ARE TO BE DESIGNED BY OTHERS. MODERNWASH'S FRAME INSTALL GUIDE SHOWS ANCHOR BOLT SIZES BASED ON THE FRAME REACTIONS. ARCHITECT, OWNER, AND/OR CONTRACTOR ARE RESPONSIBLE FOR INFORMING MODERNWASH IF THE SIZE OR TYPE OF ANCHOR BOLTS CHANGES FROM WHAT IS SHOWN IN THE STEEL FRAME INSTALL GUIDE BASED ON THE SLAB AND FOUNDATION ENGINEERING. - CONTRACTOR IS RESPONSIBLE FOR ANCHOR BOLT INSTALLATION PROCESS AND PLACEMENT AS LOCATED IN THE STRUCTURAL DESIGN DOCUMENTS. IF BOLT SIZE AND/OR PLACEMENT IS IN QUESTION PLEASE CONTACT MODERNWASH FOR CLARIFICATION. - TUBULAR STEEL FRAME IS DELIVERED TO THE SITE FINISHED WITH A FACTORY APPLIED POWDER COAT. PAINT TOUCH UP KIT IS SUPPLIED WITH THE BUILDING. IN CASE OF ANY DAMAGE, CONTRACTOR IS TO USE STANDARD OF CARE WHEN UNLOADING AND TO HAVE ADEQUATE AREA FOR STORAGE AND STAGING OF PARTS ON SITE AS REQUIRED. THE SYSTEM IS BOLT TOGETHER AND MODERNWASH RECOMMENDS THE USE OF A TELEHANDLER AND SCISSOR LIFT FOR INSTALLATION OF THE BUILDING FRAME. - A CRANE IS NOT RECOMMENDED BY MODERNWASH AS IT MAKES INSTALLATION MORE DIFFICULT, HOWEVER A CRANE CAN BE USED AND MAY BE REQUIRED BASED ON SITE ALLOWANCES. - TIGHTENING OF THE TUBULAR STEEL FRAME'S BOLTS IS TO BE DONE TO THE "TURN-OF-BOLT" METHOD AS DESCRIBED BELOW. A BOLT INSPECTION IS REQUIRED BY A ICC CERTIFIED BOLT INSPECTOR. COORDINATE INSPECTION & TIGHTENING WITH SAID INSPECTOR. SEE DESCRIPTION OF "TURN-OF-BOLT" METHOD AT THE END OF GENERAL NOTES. - SEE WINDOW AND DOOR SCHEDULES ON MW-7 SERIES SHEETS - SEE WALL, SLAB, AND FLOOR DETAILS ON MW-6 SERIES SHEETS - RESTROOM ELEVATIONS ARE TYPICAL. LOCATION OF ENTRY/EXIT DOOR MAY VARY. SEE FLOOR PLAN FOR ACTUAL DOOR LOCATION AND ACTUAL ROOM SIZE. INTERIOR WALL FINISH MAY VARY (CONFIRM WITH OWNER). - LIGHT GAUGE METAL (LGM) STUD FOR ALL PARTITIONS ARE TO BE 18 GAUGE - 16" ON CENTER - UNLESS NOTED OTHERWISE (STUD SIZE MAY VARY - SEE DRAWINGS) (SUPPLIED BY MODERNWASH). - LIGHT GAUGE METAL (LGM) CEILING JOISTS TO BE 8" - 18 GAUGE - 12" ON CENTER - SUPPORTED BY 8" TRACK (SUPPLIED BY MODERNWASH), BLOCKING AS REQUIRED, GWB, SHEATHING/DECKING, AND FINISH (SUPPLIED BY OTHERS). - LIGHT GAUGE METAL (LGM) FLOOR JOISTS TO BE 12" - 12 GAUGE - 12" ON CENTER - SUPPORTED BY SIMPSON STRONG-TIE JOIST HANGERS - UNLESS NOTED OTHERWISE (SUPPLIED BY MODERNWASH), BLOCKING AS REQUIRED, GWB, SHEATHING/DECKING, AND FINISH (SUPPLIED BY OTHERS). - PLACEMENT OF LGM WALL FRAMING IS TO BE DONE BASED ON THESE DRAWINGS. IF LOCATION IS IN QUESTION CONTACT MODERNWASH. VARIATION OF LGM PLACEMENT MAY EFFECT FINISH MATERIAL, TRIMS, ETC., AND BECOMES THE RESPONSIBILITY OF THE CONTRACTOR/OWNER. - MODERNWASH SUPPLIES A MATERIAL TAKEOFF LIST SPECIFYING MATERIAL SUPPLIED (SIZE IF APPLICABLE) AND LOCATION OF INSTALLATION. MATERIALS CUT INAPPROPRIATELY OR USED AT THE WRONG LOCATION IS THE RESPONSIBILITY OF THE CONTRACTOR AND MODERNWASH IS NOT RESPONSIBLE FOR COST OF REPLACEMENT MATERIAL INCLUDING SHIPPING, DELAY ON SITE AND ANY COST ASSOCIATED IS NOT THE RESPONSIBILITY OF MODERNWASH. - ROUGH OPENING FOR PTAC UNITS IS 42 1/4" X 16 1/4" UNLESS NOTED OTHERWISE - IF SUPPLIED BY MODERNWASH. - MINERAL BATT INSULATION SHOWN IN ALL WALL AND FLOOR LOCATIONS WITH GWB FINISH. ACTUAL LOCATIONS MAY VARY AS REQUIRED. CONFIRM WITH LOCAL BUILDING CODE (SUPPLIED BY OTHERS). - PVC PANEL FINISH INTERIOR OF WASH BAY - SUPPLIED BY MODERNWASH. IF POSSIBLE, AVOID INSTALLATION OF PANELS WHEN THE TEMPERATURE IS BELOW 10 DEGREES C (50 DEGREES F). ALLOW PANELS TO ACCLIMATE TO ROOM TEMPERATURE FOR AT LEAST 24 HOURS PRIOR TO INSTALLATION. - IF INSTALLING AT A TEMPERATURE AT OR BELOW 0 DEGREES C (32 DEGREES F) INSERT A NICKEL (1.80MM / 0.007") BETWEEN PANELS DURING INSTALLATION. IF INSTALLING AT ALL TEMPERATURES ABOVE 0 DEGREES C (32 DEGREES F) INSERT A DIME (1.35MM / 0.053") BETWEEN PANELS. - PLACE/INSTALL BUT DO NOT MECHANICALLY FASTEN THE TOP HORIZONTAL PVC J-TRIM AT THE TOP OF WALLS. PVC EXPANDS AND CONTRACTS DUE TO TEMPERATURE AND MECHANICALLY FASTENING THE TOP J-TRIM CAN CAUSE THE PANELS TO BUCKLE IN EXTREME TEMPERATURES. - IT IS THE CONTRACTORS RESPONSIBILITY TO REFER TO AND FOLLOW THE MANUFACTURERS SPECIFICATIONS FOR EACH MATERIAL INSTALLATION REQUIREMENTS AND PROCEDURES. MODERNWASH PROHIBITS INSTALLATION OF MATERIALS IN TEMPERATURES AT OR BELOW 32°F. - SOME MATERIALS ARE SHIPPED/DELIVERED WITH A PROTECTIVE FILM. THESE INCLUDE, BUT ARE NOT LIMITED TO: ACM PANEL, TRIMS/FLASHINGS, METAL WALL/ROOF PANELS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE THE PROTECTIVE FILM DURING INSTALLATION OF SAID PANEL OR SHORTLY THEREAFTER. - LINER PANEL (IF QUOTED) IS MCLEOD METAL - MATRIX PANEL. INSTALL HORIZONTALLY DIRECTLY TO LGM STUDS. SUBSTRATE MAY BE USED AS REQUIRED, WHEN ATTACHING EQUIPMENT SCREW AT VALLEY OF PANEL (SUPPLIED BY MODERNWASH). - UNISTRUT MAY BE USED AS REQUIRED BOTH HORIZONTALLY AND VERTICALLY TO SUPPORT EQUIPMENT (SUPPLIED BY OTHERS). SCREW AT VALLEY OF LINER PANEL IF USED AT WALL STUD LOCATION. - LIGHTS/MECHANICAL EQUIPMENT ARE NOT TO BE SECURED TO FLOOR/ROOF DECKING. MOUNTING TO BE DONE BY THE USE OF UNISTRUT AND THREADED ROD SECURED TO ROOF/ FLOOR JOISTS OR STEEL FRAME AS REQUIRED (SUPPLIED BY OTHERS). GEN-V7 G. TURN-OF-BOLT THIS METHOD INVOLVES TIGHTENING THE FASTENER TO A LOW INITIAL "SNUG TIGHT" CONDITION AND THEN APPLYING A PRESCRIBED AMOUNT OF TURN TO DEVELOP THE REQUIRED PRELOAD. THE ACTUAL PRELOAD WILL DEPEND ON HOW FAR THE BOLT IS TURNED AS WELL AS HOW MUCH PRELOAD WAS ESTABLISHED PRIOR TO THE TURNING. - SNUG THE JOINT TO BRING THE ASSEMBLY INTO FIRM AND COMPLETE CONTACT WITH A 3/4" WRENCH. - INSPECT THE JOINT TO VERIFY "SNUG TIGHT". (ANY GAPS IN STEEL IS UNACCEPTABLE) - MATCH MARK BEARING FACE OF THE BOLT AND ADJACENT MEMBER WALL WITH A SINGLE STRAIGHT LINE (REF BELOW). - THE BOLTING PATTERN SHOULD BE ACHIEVED BY USING A SYSTEMATIC APPROACH-APPLY THE REQUIRED TURNS AS GIVEN IN THE TABLE BELOW. BREAKER BAR MAY BE REQUIRED. 4.1. NOTE: AT TIMES, TURNING OF THE BOLTS TO ACHIEVE "SNUG TIGHT" TIGHTENS THE BOLT TO A POINT THAT WILL NOT ALLOW ADDITIONAL TIGHTENING EVEN WITH A BREAKER BAR. THIS IS ACCEPTABLE IF THIS OCCURS.  1/4 TURN BOLT AND NUT  1/2 TURN BOLT AND NUT <table><tr><th rowspan="2">Bolt Length</th><th colspan="3">Condition Under Bolt Head and Under Nut</th></tr><tr><th>Both Faces Flat (normal to bolt axis)</th><th>One face sloped, but not more than 1:20</th><th>Both faces sloped, but not more than 1:20</th></tr><tr><td>Less than or equal to 4D</td><td>1/3 Turn</td><td>1/4 Turn</td><td>2/3 Turn</td></tr><tr><td>More than 4D and less than or equal to 8D</td><td>1/4 Turn</td><td>2/3 Turn</td><td>5/6 Turn</td></tr><tr><td>More than 8D and less than or equal to 12D</td><td>2/3 Turn</td><td>5/6 Turn</td><td>1 Turn</td></tr></table> D = Bolt Diameter Applicable only to steel joints D. NOTES PERTAINING TO SITE / CONCRETE: - MODERNWASH RECOMMENDS THAT ALL SLABS FOR THE BUILDING ARE POURED PRIOR TO INSTALLING THE BUILDING FRAME. CONTRACTOR IS TO PROVIDE DIAMOND BLOCKING AT ALL COLUMN TO FOUNDATION POINTS PER THE ENGINEERING. HAVING ALL SLABS INSTALLED WILL SPEED UP THE INSTALLATION OF THE BUILDING FRAME AND OTHER COMPONENTS. - EQUIPMENT AND/OR CONVEYOR TRENCH SHOWN IN THESE DRAWINGS IS FOR REFERENCE ONLY. SEE EQUIPMENT PROVIDER DRAWINGS, MECHANICAL, ELECTRICAL, PLUMBING, AND/OR SLAB/FOUNDATION DRAWINGS FOR REQUIRED POSITIONING AND DETAILS. - THE ELEVATION OF THE EXTERIOR GRADE AND/OR CONCRETE SIDEWALK, STOOPS, ETC., MAY EFFECT FINISHES AS SUPPLIED BY MODERNWASH. CHANGES DUE TO THIS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. E. NOTES FOR FABRICATION: - RARELY BUT ON OCCASION A PART MAY BE FABRICATED INCORRECTLY. AT MODERNWASH'S EXPENSE THE PART OR PARTS WILL BE REPLACED AT MODERNWASH'S DISCRETION. THE SIZE OF OR ADJUSTMENT OF THE INCORRECTLY FABRICATED PIECES IS TO BE CONFIRMED PRIOR TO RE-FABRICATION. MODERNWASH WILL REPLACE THESE MATERIALS AS QUICKLY AS POSSIBLE, BUT RESERVES THE RIGHT TO SHIP ITEMS TOGETHER AS REQUIRED. MODERNWASH IS NOT RESPONSIBLE FOR DELAYS ON SITE INCLUDING, BUT NOT LIMITED TO LABOR, EQUIPMENT RENTALS, AND/OR OTHER AFFECTED MATERIALS. - DUE TO THE NATURE OF THE CAR WASH TUNNEL ENVIRONMENT, MODERNWASH RECOMMENDS INSTALLING THE STOREFRONT FRAMES WITH THE WEEP HOLES TO THE INTERIOR OF THE WASH BAY. WATER PROOFING OF THE STORE FRONT SYSTEM IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR. F. STEEL FRAME INSTALLATION/ERECTION NOTES THE FOLLOWING RECOMMENDATIONS ARE BASED ON YEARS OF EXPERIENCE. - PROPER BRACING OF MEMBERS DURING INSTALLATION MUST BE PERFORMED UNTIL COMPLETE. - ALL CONSTRUCTION SHALL COMPLY FULLY WITH THE APPLICABLE PROVISIONS OF THE NATIONAL OCCUPATIONAL SAFETY AND HEALTH (OSHA) REQUIREMENTS. - THE INSTALLATION OF THE STRUCTURE SHALL BE PERFORMED BY SOMEONE OF EXPERIENCE AND COMPETENCE. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO PROPERLY ASSEMBLE THE STRUCTURE AS SHOWN IN THE FRAME INSTALL GUIDE. - KEEP ALL BOLTED CONNECTIONS LOOSE ENOUGH DURING INSTALLATION SO THAT ADJUSTMENTS MAY BE POSSIBLE. - DURING THE INSTALLATION PROCESS, DO NOT CONTINUE INSTALLATION OF ADDITIONAL MEMBERS UNTIL ALL BOLTS ARE INSTALLED INTO ALL BOLT HOLES. IF ADDITIONAL MEMBERS ARE INSTALLED, INSTALLATION OF REMAINING BOLTS WILL BE DIFFICULT OR MAY NOT BE POSSIBLE WITHOUT ALTERATION TO THE STRUCTURE. CONTACT MODERNWASH IF REQUIRED. - ALWAYS USE THE INSTALLATION INSTRUCTIONS THAT HAVE SHIPPED WITH THE FRAMING MATERIALS AS THESE ARE THE MOST CURRENT. POSSIBLE CHANGES IN MATERIAL QUANTITIES, LENGTHS, PART LABELS, ETC. MAY HAVE BEEN NECESSARY DURING FINAL SHOP DRAWINGS, EVEN AFTER SEALED ENGINEERING. - ANY PROPOSED MODIFICATIONS TO THE STRUCTURE NEED TO HAVE PRIOR CONSENT FROM A LICENSED ENGINEER. - READ AND UNDERSTAND INSTALLATION INSTRUCTIONS THOROUGHLY BEFORE PROCEEDING WITH THE INSTALLATION PROCESS. - UNLESS NOTED OTHERWISE, ALL BEAM OR RAFTER ACCESS HAND HOLES SHOULD BE LOCATED ON THE TOP OF THE MEMBER WHEN INSTALLED. A COVER PLATE IS NOT REQUIRED AS THEY ARE COVERED BY WALL FRAMING, STOREFRONT FRAMING, OR ROOF PANELS. - COLUMN ACCESS HAND HOLES SHOULD BE LOCATED ON THE SIDE OF THE MEMBER AND BE COVERED BY WALL OR STOREFRONT FRAMING. EXPOSED ACCESS HOLES IN COLUMNS WHERE NO WALL OR WINDOW FRAMING IS LOCATED, ARE TO BE COVERED WITH A COVER PLATE (PROVIDED BY MODERNWASH). - ON RARE OCCASIONS FRAMING MEMBERS MAY HAVE BEEN INCORRECTLY FABRICATED. THE CONTRACTOR IS TO NOTIFY MODERNWASH IMMEDIATELY AND PROVIDE PHOTOS AS REQUIRED. THE REPAIR OR REPLACEMENT OF SAID MEMBERS IS TO BE DONE AT THE DIRECTION/DISCRETION OF MODERNWASH. - TIGHTENING OF THE TUBULAR STEEL FRAME'S BOLTS IS TO BE DONE TO THE "TURN-OF-BOLT" METHOD AS DESCRIBED BELOW. A BOLT INSPECTION IS REQUIRED BY A ICC CERTIFIED BOLT INSPECTOR. COORDINATE INSPECTION & TIGHTENING WITH SAID INSPECTOR. SEE DESCRIPTION OF "TURN-OF-BOLT" METHOD AT THE END OF GENERAL NOTES. - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE BOLT TIGHTENING WITH THE INSPECTOR PRIOR TO TIGHTENING BOLTS. INDIVIDUAL BOLT INSPECTORS MAY VARY IN THEIR REQUIREMENTS AND REQUIRED SUPERVISION OF THE BOLT TIGHTENING ON SITE AND IS NOT THE RESPONSIBILITY OF MODERNWASH. MODERNWASH REQUIRES A BOLT INSPECTION TO BE COMPLETE BY A CERTIFIED BOLT INSPECTOR. - A COPY OF THE BOLT INSPECTION REPORT MUST BE SUPPLIED TO MODERNWASH. IF MODERNWASH DOES NOT RECEIVE THE REPORT THE WARRANTY MAY BE VOID. GEN-V7 ABBREVIATIONS <table><tr><td>A.B.</td><td>ANCHOR BOLT</td></tr><tr><td>A.F.F.</td><td>ABOVE FINISHED FLOOR</td></tr><tr><td>ACM</td><td>ALUMINUM COMPOSITE PANEL</td></tr><tr><td>ACT</td><td>ACOUSTICAL CEILING TILE</td></tr><tr><td>AISC</td><td>AMERICAN INSTITUTE OF STEEL CONSTRUCTION</td></tr><tr><td>ALUM</td><td>ALUMINUM</td></tr><tr><td>ASF</td><td>ALUMINUM STORE FRONT</td></tr><tr><td>AWS</td><td>AMERICAN WELDING SOCIETY</td></tr><tr><td>C.C.</td><td>CENTER TO CENTER</td></tr><tr><td>C.J.</td><td>CONSTRUCTION JOINT</td></tr><tr><td>C.T.</td><td>CERAMIC TILE</td></tr><tr><td>CL</td><td>CENTER LINE</td></tr><tr><td>CLG</td><td>CEILING</td></tr><tr><td>CMU</td><td>CONCRETE MASONRY UNIT</td></tr><tr><td>CONC.</td><td>CONCRETE</td></tr><tr><td>CUL</td><td>CUT TO FIT</td></tr><tr><td>CWO</td><td>CONFIRM WITH OWNER</td></tr><tr><td>CONT.</td><td>CONTINUOUS</td></tr><tr><td>D.G.A.</td><td>DENSE-GRADED AGGREGATE</td></tr><tr><td>D.S.</td><td>DOWN SPOUT</td></tr><tr><td>D.O.B.</td><td>DETAIL</td></tr><tr><td>DIM</td><td>DIMENSION(S)</td></tr><tr><td>DTL</td><td>DETAIL</td></tr><tr><td>E.F.</td><td>EXHAUST FAN</td></tr><tr><td>E.I.F.S.</td><td>EXTERIOR INSULATED FINISH SYSTEM</td></tr><tr><td>E.J.</td><td>EXPANSION JOINT</td></tr><tr><td>E.Q.</td><td>EQUAL</td></tr><tr><td>EW</td><td>EACH WAY</td></tr><tr><td>E.W.C.</td><td>ELECTRIC WATER COOLER</td></tr><tr><td>EXIST.</td><td>EXISTING</td></tr><tr><td>E.S.A.</td><td>EXPOSED STRUCTURE ABOVE</td></tr><tr><td>F.B.G.S.</td><td>FIBERGLASS</td></tr><tr><td>FCP</td><td>FIBER CEMENT PANEL</td></tr><tr><td>FD.</td><td>FLOOR DRAIN</td></tr><tr><td>FDN</td><td>FOUNDATION</td></tr><tr><td>F.E.C.</td><td>FIRE EXTINGUISHER CABINET</td></tr><tr><td>FE.</td><td>FINISHED FLOOR</td></tr><tr><td>FG</td><td>FLOAT GLASS 1/4"</td></tr><tr><td>FG.</td><td>FINISHED GRADE</td></tr><tr><td>FLASH.</td><td>FLASHING</td></tr><tr><td>F.O.B.</td><td>FACE OF BRICK</td></tr><tr><td>F.O.M.</td><td>FACE OF MASONRY</td></tr><tr><td>F.O.S.</td><td>FACE OF STUD</td></tr><tr><td>FRP</td><td>FIBERGLASS REINFORCED PLASTIC</td></tr><tr><td>GA</td><td>GAUGE</td></tr><tr><td>GL.</td><td>GLASS (GLAZING)</td></tr><tr><td>GW.B</td><td>GYPSUM WALLBOARD</td></tr><tr><td>GW.BMR</td><td>GYPSUM WALLBOARD - MOISTURE RESISTANT</td></tr><tr><td>H.B.</td><td>HOSE BIB</td></tr><tr><td>HM</td><td>HOLLOW METAL</td></tr><tr><td>IFG</td><td>INSULATED FLOOR GLASS 1"</td></tr><tr><td>INSUL</td><td>INSULATION</td></tr><tr><td>LAV</td><td>LAVATORY</td></tr><tr><td>LGM</td><td>LIGHT GAUGE METAL</td></tr><tr><td>LVL</td><td>LAMINATED VENEER LUMBER</td></tr><tr><td>M-B.D</td><td>MAGNESIUM OXIDE BOARD</td></tr><tr><td>MAX.</td><td>MAXIMUM</td></tr><tr><td>MFR.</td><td>MANUFACTURER</td></tr><tr><td>MIN.</td><td>MINIMUM</td></tr><tr><td>MLP</td><td>METAL LINER PANEL</td></tr><tr><td>MTL</td><td>METAL</td></tr><tr><td>N.I.C.</td><td>NOT IN CONTRACT</td></tr><tr><td>N.O. (#)</td><td>NUMBER</td></tr><tr><td>N.T.S.</td><td>NOT TO SCALE</td></tr><tr><td>O.C.</td><td>ON CENTER</td></tr><tr><td>O.C.H.</td><td>ON CENTER HORIZONTAL</td></tr><tr><td>O.C.V.</td><td>ON CENTER VERTICAL</td></tr><tr><td>O.F.C.I.</td><td>OWNER FURNISHED CONTRACTOR INSTALLED</td></tr><tr><td>O.F.E.</td><td>OWNER FURNISHED EQUIPMENT</td></tr><tr><td>O.H.</td><td>ON HEAD</td></tr><tr><td>OSB</td><td>ORIENTED STRAND BOARD</td></tr><tr><td>P</td><td>PAINT</td></tr><tr><td>P.A.F.</td><td>POWDER ACTUATED FASTENER</td></tr><tr><td>PC</td><td>POLYCARBONATE</td></tr><tr><td>PEHB</td><td>PRE-ENGINEERED METAL BUILDING</td></tr><tr><td>PERF</td><td>PERFORATED</td></tr><tr><td>PERIM.</td><td>PERIMETER</td></tr><tr><td>P-LAM</td><td>PLASTIC LAMINATE</td></tr><tr><td>PLY</td><td>PLYWOOD</td></tr><tr><td>PNL</td><td>PANEL</td></tr><tr><td>PRE-ENG</td><td>PRE-ENGINEERED</td></tr><tr><td>PREFAB</td><td>PREFABRICATED</td></tr><tr><td>PRE-FIN</td><td>PRE-FINISHED</td></tr><tr><td>PRE-MFR</td><td>PRE-MANUFACTURED</td></tr><tr><td>PSF</td><td>POUNDS PER SQUARE FOOT</td></tr><tr><td>PSI</td><td>POUNDS PER SQUARE INCH</td></tr><tr><td>P.T.</td><td>PRESSURE TREATED</td></tr><tr><td>PTAC</td><td>PACKAGED TERMINAL AIR CONDITIONER</td></tr><tr><td>PTN</td><td>PARTITION</td></tr><tr><td>PVC</td><td>POLYVINYL CHLORIDE</td></tr><tr><td>RCP</td><td>REFLECTED CEILING PLAN</td></tr><tr><td>REC.</td><td>RECOMMENDED</td></tr><tr><td>REQ.</td><td>REQUIRED, REQUIREMENTS</td></tr><tr><td>RFT</td><td>RESILIENT FLOOR TILE</td></tr><tr><td>R.R.</td><td>RESTROOM</td></tr><tr><td>S.B.</td><td>SPLASH BLOCK</td></tr><tr><td>S.D.</td><td>SOAP DISPENSER</td></tr><tr><td>SIPS</td><td>STRUCTURAL INSULATED PANEL</td></tr><tr><td>SF</td><td>SQUARE FOOT</td></tr><tr><td>S.O.G.</td><td>SLAB ON GRADE</td></tr><tr><td>SS</td><td>STAINLESS STEEL</td></tr><tr><td>STL</td><td>STEEL</td></tr><tr><td>STRUC.</td><td>STRUCTURAL</td></tr><tr><td>SYN</td><td>SYNTHETIC</td></tr><tr><td>TEMP.</td><td>TEMPERED</td></tr><tr><td>TOS</td><td>TOP OF STEEL</td></tr><tr><td>TP.</td><td>TOILET PAPER</td></tr><tr><td>T&S.P</td><td>TAPED, SEALED, & PAINTED</td></tr><tr><td>TYP.</td><td>TYPICAL</td></tr><tr><td>U.N.O.</td><td>UNLESS NOTED OTHERWISE</td></tr><tr><td>V.C.T.</td><td>VINYL COMPOSITION TILE</td></tr><tr><td>VEN.</td><td>VENER</td></tr><tr><td>VENT.</td><td>VENTILATED</td></tr><tr><td>WD</td><td>WOOD</td></tr><tr><td>W.W.F.</td><td>WELDED WIRE FABRIC</td></tr><tr><td>W.F.</td><td>PLUS OR MINUS</td></tr></table> GEN-V7 REVISIONS <table><tr><th>ID</th><th>DATE</th><th>DESCRIPTION</th></tr><tr><td>0</td><td>05/03/2023</td><td>FOR PERMIT</td></tr></table> NOTE: THIS DESIGN DOCUMENT INCLUDES DESIGNS, DRAWINGS AND/OR RENDERINGS PREPARED FOR THE DESIGN, CONSTRUCTION AND/OR RENDERINGS OF THESE PROJECTS. THESE DRAWINGS AND/OR RENDERINGS ARE THE PROPERTY OF MODERNWASH. ANY REPRODUCTION, USE OR REPRODUCTION OF THIS DESIGN AND ITS VARIOUS ELEMENTS, PARTS OR PORTIONS ARE NOT PERMITTED WITHOUT THE WRITTEN CONSENT OF MODERNWASH. MODERNWASH DOES NOT TRANSFER ANY RIGHTS OF REPRODUCTION. COPYRIGHT: MODERNWASH 2023 2023-2-1 Milwaukee, WI, Summit, WI GEN-V7 NEW CAR WASH FOR: TUNNEL VISION CAR WASH 5220 SCOTTSDALE ROAD BOWLING GREEN, KY 42004 MODEL: AXIOM BETA RETAIL TOWER 2 OF 39 GEN-V7 PRELIMINARY PLOT DATE: 5/3/23 DRAWN BY: EWH, CBH CHECKED BY: ##### SHEET: MW-02 NOTES & ABBREVIATIONS GEN-V7 USE QR CODE TO VIEW CURRENT PROJECT DRAWINGS.  PRELIMINARY PLOT DATE: 5/3/23 DRAWN BY: EWH, CBH CHECKED BY: ##### SHEET: MW-02 NOTES & ABBREVIATIONS	Bolt Length	Condition Under Bolt Head and Under Nut			Both Faces Flat (normal to bolt axis)	One face sloped, but not more than 1:20	Both faces sloped, but not more than 1:20	Less than or equal to 4D	1/3 Turn	1/4 Turn	2/3 Turn	More than 4D and less than or equal to 8D	1/4 Turn	2/3 Turn	5/6 Turn	More than 8D and less than or equal to 12D	2/3 Turn	5/6 Turn	1 Turn	A.B.	ANCHOR BOLT	A.F.F.	ABOVE FINISHED FLOOR	ACM	ALUMINUM COMPOSITE PANEL	ACT	ACOUSTICAL CEILING TILE	AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	ALUM	ALUMINUM	ASF	ALUMINUM STORE FRONT	AWS	AMERICAN WELDING SOCIETY	C.C.	CENTER TO CENTER	C.J.	CONSTRUCTION JOINT	C.T.	CERAMIC TILE	CL	CENTER LINE	CLG	CEILING	CMU	CONCRETE MASONRY UNIT	CONC.	CONCRETE	CUL	CUT TO FIT	CWO	CONFIRM WITH OWNER	CONT.	CONTINUOUS	D.G.A.	DENSE-GRADED AGGREGATE	D.S.	DOWN SPOUT	D.O.B.	DETAIL	DIM	DIMENSION(S)	DTL	DETAIL	E.F.	EXHAUST FAN	E.I.F.S.	EXTERIOR INSULATED FINISH SYSTEM	E.J.	EXPANSION JOINT	E.Q.	EQUAL	EW	EACH WAY	E.W.C.	ELECTRIC WATER COOLER	EXIST.	EXISTING	E.S.A.	EXPOSED STRUCTURE ABOVE	F.B.G.S.	FIBERGLASS	FCP	FIBER CEMENT PANEL	FD.	FLOOR DRAIN	FDN	FOUNDATION	F.E.C.	FIRE EXTINGUISHER CABINET	FE.	FINISHED FLOOR	FG	FLOAT GLASS 1/4"	FG.	FINISHED GRADE	FLASH.	FLASHING	F.O.B.	FACE OF BRICK	F.O.M.	FACE OF MASONRY	F.O.S.	FACE OF STUD	FRP	FIBERGLASS REINFORCED PLASTIC	GA	GAUGE	GL.	GLASS (GLAZING)	GW.B	GYPSUM WALLBOARD	GW.BMR	GYPSUM WALLBOARD - MOISTURE RESISTANT	H.B.	HOSE BIB	HM	HOLLOW METAL	IFG	INSULATED FLOOR GLASS 1"	INSUL	INSULATION	LAV	LAVATORY	LGM	LIGHT GAUGE METAL	LVL	LAMINATED VENEER LUMBER	M-B.D	MAGNESIUM OXIDE BOARD	MAX.	MAXIMUM	MFR.	MANUFACTURER	MIN.	MINIMUM	MLP	METAL LINER PANEL	MTL	METAL	N.I.C.	NOT IN CONTRACT	N.O. (#)	NUMBER	N.T.S.	NOT TO SCALE	O.C.	ON CENTER	O.C.H.	ON CENTER HORIZONTAL	O.C.V.	ON CENTER VERTICAL	O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED	O.F.E.	OWNER FURNISHED EQUIPMENT	O.H.	ON HEAD	OSB	ORIENTED STRAND BOARD	P	PAINT	P.A.F.	POWDER ACTUATED FASTENER	PC	POLYCARBONATE	PEHB	PRE-ENGINEERED METAL BUILDING	PERF	PERFORATED	PERIM.	PERIMETER	P-LAM	PLASTIC LAMINATE	PLY	PLYWOOD	PNL	PANEL	PRE-ENG	PRE-ENGINEERED	PREFAB	PREFABRICATED	PRE-FIN	PRE-FINISHED	PRE-MFR	PRE-MANUFACTURED	PSF	POUNDS PER SQUARE FOOT	PSI	POUNDS PER SQUARE INCH	P.T.	PRESSURE TREATED	PTAC	PACKAGED TERMINAL AIR CONDITIONER	PTN	PARTITION	PVC	POLYVINYL CHLORIDE	RCP	REFLECTED CEILING PLAN	REC.	RECOMMENDED	REQ.	REQUIRED, REQUIREMENTS	RFT	RESILIENT FLOOR TILE	R.R.	RESTROOM	S.B.	SPLASH BLOCK	S.D.	SOAP DISPENSER	SIPS	STRUCTURAL INSULATED PANEL	SF	SQUARE FOOT	S.O.G.	SLAB ON GRADE	SS	STAINLESS STEEL	STL	STEEL	STRUC.	STRUCTURAL	SYN	SYNTHETIC	TEMP.	TEMPERED	TOS	TOP OF STEEL	TP.	TOILET PAPER	T&S.P	TAPED, SEALED, & PAINTED	TYP.	TYPICAL	U.N.O.	UNLESS NOTED OTHERWISE	V.C.T.	VINYL COMPOSITION TILE	VEN.	VENER	VENT.	VENTILATED	WD	WOOD	W.W.F.	WELDED WIRE FABRIC	W.F.	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PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####

SHEET:

MV-0.2

NOTES & ABBREVIATIONS

MODERNWASH

5280 SCOTTSVILLE ROAD
BOWLING GREEN, KY 42404

MODEL: AXIOM BETA
RETAIL TOWER
2023

2 OF 39

REVISIONS			DESCRIPTION	FOR PERMIT
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NOTE: THIS DESIGN DOCUMENT INCLUDES DESIGN DRAWINGS AND/OR RENDERINGS PREPARED FOR THE SPECIFIC CLIENT AND SITE LOCATION SHOWN. THESE DRAWINGS ARE NOT TO BE REPRODUCED, COPIED, OR OTHERWISE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF MODERNWASH INC. ANY REUSE OF THESE DRAWINGS FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF MODERNWASH INC. WILL BE CONSIDERED A VIOLATION OF THE TERMS OF THE AGREEMENT AND DOES NOT TRANSFER ANY RIGHTS OF REPRODUCTION.

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ABBREVIATIONS	
A.B.	ANCHOR BOLT
A.F.	ABOVE FINISHED FLOOR
ACM	ALUMINUM COMPOSITE PANEL
ACT	ACOUSTICAL CEILING TILE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALUM	ALUMINUM
ASF	ALUMINUM STORE FRONT
AWVS	AMERICAN WELDING SOCIETY
C.C.	CENTER TO CENTER
C.J.	CONSTRUCTION JOINT
C.T.	CERAMIC TILE
C.L.	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
C.T.F.	CUT TO FIT
CWVO	CONFIRM WITH OWNER
CONT.	CONTINUOUS
D.G.A.	DENSE-GRADED AGGREGATE
D.S.	DOWN SPOUT
DBL	DOUBLE
DIM	DIMENSION(S)
DTL	DETAIL
E.F.	EXHAUST FAN
E.I.F.S.	EXTERIOR INSULATED FINISH SYSTEM
EXP.	EXPANSION JOINT
EJ	EQUAL
EQ	EACH WAY
EW	ELECTRIC WATER COOLER
EXIST.	EXISTING
E.S.A.	EXPOSED STRUCTURE ABOVE
F.B.G.	FIBERGLASS
F.C.P.	FIBER CEMENT PANEL
FD	FLOOR DRAIN
FDN	FOUNDATION
F.E.C.	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FG	FLOAT GLASS 1/4"
FG	FINISHED GRADE
FLASH.	FLASHING
F.O.B.	FACE OF BRICK
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.R.P.	FIBERGLASS REINFORCED PLASTIC
GA	GAUGE
GL	GLASS (GLAZING)
GWB	GYPSUM WALLBOARD
GWBMR	GYPSUM WALLBOARD - MOISTURE RESISTANT
H.B.	HOLE BIB
H.M.	HOLLOW METAL
IFG	INSULATED FLOAT GLASS 1"
INSUL	INSULATION
LAV	LAVATORY
LGM	LIGHT GAUGE METAL
LVL	LAMINATED VENEER LUMBER
M-BD	MAGNESIUM OXIDE BOARD
MAX.	MAXIMUM
MFR.	MANUFACTURER
MIN.	MINIMUM
M.L.P.	METAL LINER PANEL
MTL	METAL
N.I.C.	NOT IN CONTRACT
NO. (#)	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.C.H.	ON CENTER HORIZONTAL
O.C.V.	ON CENTER VERTICAL
O.F.C.I.	OWNER FURNISHED CONTRACTOR
O.F.E.	OWNER FURNISHED EQUIPMENT
O.H.	OVER HEAD
OSB	ORIENTED STRAND BOARD
P	PAINT
P.A.F.	POWDER ACTUATED FASTENER
PC	POLYCARBONATE
PEMB	PRE-ENGINEERED METAL BUILDING
PERF	PERFORATED
PERIM.	PERIMETER
P-LAM	PLASTIC LAMINATE
PLY	PLYWOOD
PNL	PANEL
PRE-ENG	PRE-ENGINEERED
PREFAB	PREFABRICATED
PRE-FIN	PRE-FINISHED
PRE-MFR	PRE-MANUFACTURED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
RCP	REFLECTED CEILING PLAN
REC.	RECOMMENDED
REQ.	REQUIRED, REQUIREMENTS
RFT	RESILIENT FLOOR TILE
R.R.	RESTROOM
S.B.	SPLASH BLOCK
S.D.	SOAP DISPENSER
SID.	STRUCTURAL INSULATED PANEL
SF	SQUARE FOOT
S.O.G.	SLAB ON GRADE
SS	STAINLESS STEEL
STL	STEEL
STRUC.	STRUCTURAL
SYN	SYNTHETIC
TEMP	TEMPERED
TOS	TOP OF STEEL
TP	TOILET PAPER
TS&P	TAPED, SEALED, & PAINTED
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.C.T.	VINYL COMPOSITION TILE
VEN	VENEER
VENT.	VENTILATED
WD	WOOD
WWF:	WELDED WIRE FABRIC
-/+	PLUS OR MINUS

05/03/2023 BUILDING CODE SUMMARY - Missouri City of Lee's Summit, Jackson Co., Missouri 2018 International Building Code NOTES 1. This project shall conform to the latest edition of the 2018 Missouri Building Code, including any local ordinances or other requirements imposed by the Fire Marshall having jurisdiction. 2. The listing below of pertinent Code Sections is not all inclusive, and therefore incumbent upon the General Contractor to assure the project is constructed in full compliance with all applicable codes and ordinances. Further, it is the GC's obligation to notify the architect/owner immediately if any part of the design/material selection/construction documents appear to be inconsistent or non-compliant with the Codes. Failure to do so may incur unforeseen costs of removal and replacement of items at the GC's expense. PROJECT DATA: Project Name: Midwest Car Wash Location: 20 SE Thompson Dr., Lee's Summit, Jackson Co., MO 64081 Owner: Jason Bohmert (Owner's Rep) Midwest Car Wash Group 1st Floor Gross Area: 5,213 SF 1st Floor Occupied Area: 710 SF 2nd Floor Occupied Area: 518 SF Total Occupied Area: 1,228 SF / 150 = 8 persons Non-Occupied (Mechanical) Area: 4,494 SF / 300 = 14 persons Total Gross Area: 5,731 SF (5,213 + 518) Height: 27' - 0" Tunnel Length: 120' Climate Zone: 6A 304.1 B Business Use Group Car Wash 502.1 Address Identification New and existing buildings shall be provided with approved address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall be a minimum of 4 inches (102 mm) high with a minimum stroke width of 1/16 inch. Where required by the fire code official, address identification shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road and the building address cannot be viewed from the public way, a monument, pole or other approved sign or means shall be used to identify the structure. Address identification shall be maintained. Table 504.3 Allowable Height = 40'-0" Use Group B, Construction Type - 5B, Unprotected, Unsprinkled Table 504.4 Allowable Number of Stories = 2 Stories 505.3 Equipment Platforms Equipment platforms in buildings shall not be considered as a portion of the floor below. Such equipment platforms shall not contribute to either the building area or the number of stories as regulated by Section 503.1. The area of the equipment platform shall not be included in determining the fire area in accordance with Section 903. Equipment platforms shall not be a part of any mezzanine and such platforms and the walkways, stairways, alternating tread devices and ladders providing access to an equipment platform shall not serve as a part of the means of egress from the building. 505.3.3 Guards Equipment platforms shall have guards where required by Section 1015.2 Table 506.2 Allowable Area = 9,000 SF Occupancy B, Construction Type - 5B, UnProtected / Not Sprinklered Table 601 Fire Resistance Rating for Building Elements = 0 hours Type 5B - Structural Frame,Walls,Partitions, Floors, Roof Page 1 of 5	05/03/2023 Table 602 Fire Separation Rating based on Fire Separation Distance = 0 Occupancy Group B, Type 5B, Fire Separation Dist. = Greater than 30' Table 705.8 Max Area Exterior Wall Openings based on Fire Separation Distance Fire Separation Dist. Degree of Opening Protection Allowable Area 30' or > Unprotected, Nonsprinklered No Limit Table 803.1.3 Interior Wall and Ceiling Finish Requirements by Occupancy Occupancy Group B, NonSprinklered: Corridors TYPE B; Rooms/Enclosed Spaces TYPE C 903 Automatic Sprinkler Systems - Not Required 903.2.9 Fire Protection for Group S-1 (soap/wash supplies storage areas) An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy where one of the following conditions exists: 1. A Group S-1 fire area exceeds 12,000 square feet. 2. A Group S-1 fire area is located more than three stories above grade plane. 3. The combined area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds 24,000 SF. 4. A Group S-1 fire area used for the storage of commercial motor vehicles where the fire area exceeds 5,000 square feet. 5. A Group S-1 occupancy used for the storage of upholstered furniture or mattresses exceeds 2,500 SF. 906.1 Portable Fire Extinguishers - Where Required : 906.1.3 In areas where flammable or combustible liquids are stored, used or dispensed. See Local Fire Marshall for any other required locations. 907.1 Fire Alarm and Detection Systems - Not Required Table 1004.5 Maximum Floor Area per Occupant: Mechanical equipment room, 300 gross sf; Business Areas, 150 gross sf Table 1006.2.1 Spaces with one Exit or Exist Access Doorway Occupancy B Max Occupant Load 49 (W/O Sprinkler) Max Egress Travel 75' 1006.2.2.1 Boiler, Incinerator and Furnace Rooms Two exit access doorways are required in boiler, incinerator and furnace rooms where the area is over 500 square feet (46 m²) and any fuel-fired equipment exceeds 400,000 British thermal units (Btu) (422,000 KJ) input capacity. Where two exit access doorways are required, one is permitted to be a fixed ladder or an <i>alternating tread device</i>. Exit access doorways shall be separated by a horizontal distance equal to one-half the length of the maximum overall diagonal dimension of the room. 1006.3.2 (2) Stories with one Exit or Access to one Exit Occupancy B, Max Occupant Load = 49, Max Egress Travel = 75' 1006.3.3 Single Exits A single exit or access to a single exit shall be permitted from any story or occupied roof where one of the following conditions exists: • The occupant load number of dwelling units and common path of egress travel distance do not exceed the values in Table 1006.3.3.(1) or 1006.3.3.(2). • Rooms, areas and spaces complying with Section 1006.2.1 with exits that discharge directly to the exterior at the level of exit discharge, are permitted to have one exit or access to a single exit. 1008.2 Illumination Required The means of egress serving a room or space shall be illuminated at all times that the room or space is occupied. 1009.1 Accessible Means of Egress Required Accessible spaces shall be provided with not less than one accessible means of egress. 1010.1.7 Thresholds Thresholds at doorways shall not exceed ¾ inch (19.1 mm) in height above the finished floor or landing for sliding doors serving dwelling units or ½ inch (12.7 mm) above the finished floor or landing for other doors. Raised thresholds and floor level changes greater than ¼ inch (6.4 mm) at doorways shall be beveled with a slope not greater than one unit vertical in two units horizontal (50-percent slope). Page 2 of 5	05/03/2023 Table 1011.2 Stairs: Width and Capacity The required capacity of stairways shall be determined as specified in Section 1005.1, but the minimum width shall be not less than 44 inches (1118 mm). See Section 1009.3 for accessible means of egress stairways. Exceptions: Stairways serving an occupant load of less than 50 shall have a width of not less than 36 inches. 1011.3 Headroom Stairways shall have a headroom clearance of not less than 80 inches (2032 mm) measured vertically from a line connecting the edge of the nosings. Such headroom shall be continuous above the stairway to the point where the line intersects the landing below, one tread depth beyond the bottom riser.The minimum clearance shall be maintained the full width of the stairway and landing. 1011.5.2 Riser Height and Tread Depth Stair riser heights shall be 7 inches (178 mm) maximum and 4 inches (102 mm) minimum.The riser height shall be measured vertically between the nosings of adjacent treads. Rectangular tread depths shall be 11 inches minimum measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's nosing. 1011.5.5.3 Solid Risers Risers shall be solid. 1011.7.1 Stairway Walking Surface The walking surface of treads and landings of a stairway shall not be sloped steeper than one unit vertical in 48 units horizontal (2-percent slope) in any direction. Stairway treads and landings shall have a solid surface. Finish floor surfaces shall be securely attached. 1011.1.1 Handrails Stairways shall have handrails on each side and shall comply with Section 1014. 1011.16 Ladders Permanent ladders shall not serve as a part of the means of egress from occupied spaces within a building. Permanent ladders shall be constructed in accordance with Section 306.5 of the International Mechanical Code. Permanent ladders shall be permitted to provide access to the following areas: 1. Spaces frequented only by personnel for maintenance, repair or monitoring of equipment. 2. Nonoccupiable spaces accessed only by catwalks, crawl spaces, freight elevators or very narrow passageways. 3. Raised areas used primarily for purposes of security, life safety or fire safety including, but not limited to, observation galleries, prison guard towers, fire towers or lifeguard stands. 4. Elevated levels in Group U not open to the general public. 5. Nonoccupied roofs that are not required to have stairway access in accordance with Section 1011.12.1. 6. Where permitted to access equipment and appliances in accordance with Section 306.5 of the International Mechanical Code. 1013 Exit Signs 1.Exit signs are not required in rooms or areas that require only one exit or exit access. 2. Main exterior exit doors or gates that are obviously and clearly identifiable as exits need not have exit signs where approved by the building official. Table 1017.2 Exit Access Travel Distance Occupancy B, Without Sprinkler System = 200 feet 1018.3 Aisles in Groups B and M In Group B and M occupancies, the minimum clear aisle width shall be determined by Section 1005.1 for the occupant load served. Exception: Nonpublic aisles serving less than 50 people and not required to be accessible by Chapter 11 need not exceed 28 inches (711 mm) in width. 1102 Accessibility - Compliance Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and ICC A117.1. 1103.2.9 Equipment Spaces Spaces frequented only for maintenance of equipment are not required to comply with this chapter. 1204.3 Artificial Light Artificial light shall be provided that is adequate to provide an average illumination of 10 footcandles (107 lux) over the area of the room at a height of 30 inches (762 mm) above the floor level. Page 3 of 5	05/03/2023 1301.1.1 Energy Efficiency - Criteria Buildings shall be designed and constructed in accordance with the Int'l Energy Cons. Code. 1406.8 Metal Composite Materials Fire resistance rating Where MCM are used on exterior walls required to have a fire-resistance rating in accordance with Section 703, evidence shall be submitted to the building official that the required fire-resistance rating is maintained. Exception: MCM systems not containing foam plastic insulation, which are installed on the outer surface of a fire-resistance-rated exterior wall in a manner such that the attachments do not penetrate through the entire exterior wall assembly, shall not be required to comply with this section. 1406.9 MCM Surface-Burning Characteristics Unless otherwise specified, MCM shall have a flame spread index of 75 or less and a smoke-developed index of 450 or less when tested in the maximum thickness intended for use in accordance with ASTM E84 or UL 723. 1407.2 EIFS (Exterior Insulation and Finish Systems)- EIFS shall be constructed such that it meets the performance characteristics required in ASTM E2568. 1407.3 EIFS - Structural Design The underlying structural framing and substrate shall be designed and constructed to resist loads as required by Chapter 16 of 2018 IBC. 1407.4 EIFS - Weather Resistance EIFS shall comply with Section 1402 and shall be designed and constructed to resist wind and rain in accordance with this section and the manufacturer's application instructions. 1407.5 EIFS - Installation Installation of EIFS and EIFS with drainage shall be in accordance with the EIFS manufacturer's instructions. GENERAL EIFS SPECIFICATION EXAMPLE BELOW: 1.1 SECTION REQUIREMENTS A. Comply with EIFS Industry Members Association's (EIMA) "Guideline Specification for Exterior Insulation and Finish Systems (EIFS) Class PB" with impact classification and range per EIMA 101.86 of Standard Impact Resistance: 25-49 inch-lb and High Impact Resistance: 90-150 inch-lb. B. Structural Performance: Engineer, fabricate, and install prefabricated panels to withstand the effects of normal thermal movement, gravity loads, inward- or outward-acting uniform wind velocity pressures, and deflection of less than L/240 of span of framing members. C. Submittals: Product Data and Samples of finishes. 1. For prefabricated panels, submit Shop Drawings and structural analysis data signed and sealed by the qualified professional engineer who was responsible for their preparation. D. Installer Qualifications: Certified in writing by system manufacturer. 2.1 MANUFACTURERS A. Dryvit, Sto or approved equal. 3.1 INSTALLATION A. Comply with system manufacturer's written instructions for installation of system as applicable to each type of substrate indicated. B. 1. Install panels level, plumb, and true to line with no variation in plane or alignment exceeding 1/16 inch and no variation in position exceeding 1/8 inch. 2. Maintain clearance between panels required for installing joint sealants. C. Prepare joints and apply sealants to comply with applicable requirements with Manufacturers specifications. D. Obtain Manufacturers warranty. 1504.1 Wind Resistance Performance Requirements of Roofs Roof decks and roof coverings shall be designed for wind loads in accordance with Chapter 16 and Sections 1504.2, 1504.3 and 1504.4. 1504.3.1 Other Roof Systems Built-up, modified bitumen, fully adhered or mechanically attached single-ply roof systems, metal panel roof systems applied to a solid or closely fitted deck and other types of membrane roof coverings shall be tested in accordance with FM 4474, UL 580 or UL 1897. Page 4 of 5
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05/03/2023 Table 1505.1 Minimum Roof covering Classification for Types of Construction Construction Type - 5: Roof Class C See Section 1507 for roof requirements including but not limited to slope, support, etc.

1508.1

Roof Insulation - General
The use of above-deck thermal insulation shall be permitted provided such insulation is covered with an approved roof covering and passes the tests of NFPA 276 or UL 1256 when tested as an assembly.

1512.1

Photovoltaic Panels and Modules
Photovoltaic panels and modules installed upon a roof or as an integral part of a roof assembly shall comply with the requirements of this code and the International Fire Code.

1704.2

Special Inspections and Tests
Where application is made to the *building official* for construction as specified in Section 105, the owner or the owner's authorized agent, other than the contractor, shall employ one or more approved agencies to provide special inspections and tests during construction on the types of work specified in Section 1705 and identify the approved agencies to the building official.

These special inspections and tests are in addition to the inspections by the *building official* that are identified in Section 110.

Exceptions:
1. Special inspections and tests are not required for construction of a minor nature or as warranted by conditions in the jurisdiction as approved by the building official.
2. Unless otherwise required by the building official, special inspections and tests are not required for Group U occupancies that are accessory to a residential occupancy including, but not limited to, those listed in Section 312.1.
3. Special inspections and tests are not required for portions of structures designed and constructed in accordance with the cold-formed steel light-frame construction provisions of Section 2211.7 or the conventional light-frame construction provisions of Section 2308.
4. The contractor is permitted to employ the approved agencies where the contractor is also the owner.

2406.4.3

Glazing in Windows
Glazing in an individual fixed or operable panel that meets all of the following conditions shall be considered a hazardous location:

1. The exposed area of an individual pane is greater than 9 square feet (0.84 m²).
2. The bottom edge of the glazing is less than 18 inches (457 mm) above the floor.
3. The top edge of the glazing is greater than 36 inches (914 mm) above the floor.
4. One or more walking surface(s) are within 36 inches (914 mm), measured horizontally and in a straight line, of the plane of the glazing.

2608

Light-Transmitting Plastic Glazing
2608.1 Buildings of Type VB Construction
Openings in the exterior walls of buildings of Type VB construction, where not required to be protected by Section 705, shall be permitted to be glazed or equipped with light-transmitting plastic. Light-transmitting plastic glazing shall comply with Section 2606.

2609

Light-Transmitting Plastic Roof Panels
Light-transmitting plastic roof panels shall comply with this section and Section 2606. Light-transmitting plastic roof panels shall not be installed in Groups H, I-2 and I-3. In all other groups, light-transmitting plastic roof panels shall comply with any one of the following conditions:

1. The building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.
2. The roof construction is not required to have a fire-resistance rating by Table 601.
3. The roof panels meet the requirements for roof coverings in accordance with Chapter 15.

END

REVISIONS		DESCRIPTION
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MODERNWASH

5220 SCOTTVILLE ROAD
BOWLING GREEN, KY 42104



MODEL: AXIOM BETA
RETAIL TOWER
2023

3 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
JAMES DAVEN
ARCHITECT
05-03-2023

USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.



PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####
SHEET:
MV-0.3
GENERAL INFORMATION



ModernWash Project Color Selection Check List
Project Name: Tunnel Vision Car Wash (Midwest) - Lee's Summit
20 SE Thompson Dr, Lee's Summit, 64081

Main Frame RAL: Jet Black (RAL 9005)

Wash Bay Roof: Blue Polycarbonate

Tower Roof: Regal White (Mega-Rib - McElroy)

Pay Canopy Roof: Matte Black (Mega-Rib - McElroy)

Gutter and Downspouts at all locations: Matte Black (McElroy)

Wash Bay + Tower Accent EIFS : Blue (PANTONE 2144C)

Knee Wall & above Wash Bay Glass EIFS: Grey (PANTONE 2331C)

Office + Equipment Tower EIFS: Light Grey (PANTONE 2330C)

Office + Equipment Tower Accent Bands EIFS: Black

Pay Canopy Column-Wrap EIFS: Blue (PANTONE 2144C)

Break Metal Trims Trims: Matte Black (McElroy)

Storefront Polycarbonate: Clear

PVC: White

Equipment Room R-panel Ceiling: White

Liner Panel: White

Wash Bay Louver Color: Grey (PANTONE 2331C)

Equipment Room Louver Color: Blue (PANTONE 2144C)

Stair System: Grey

Ships Ladder: Galvanized

Handrail: Stainless Steel

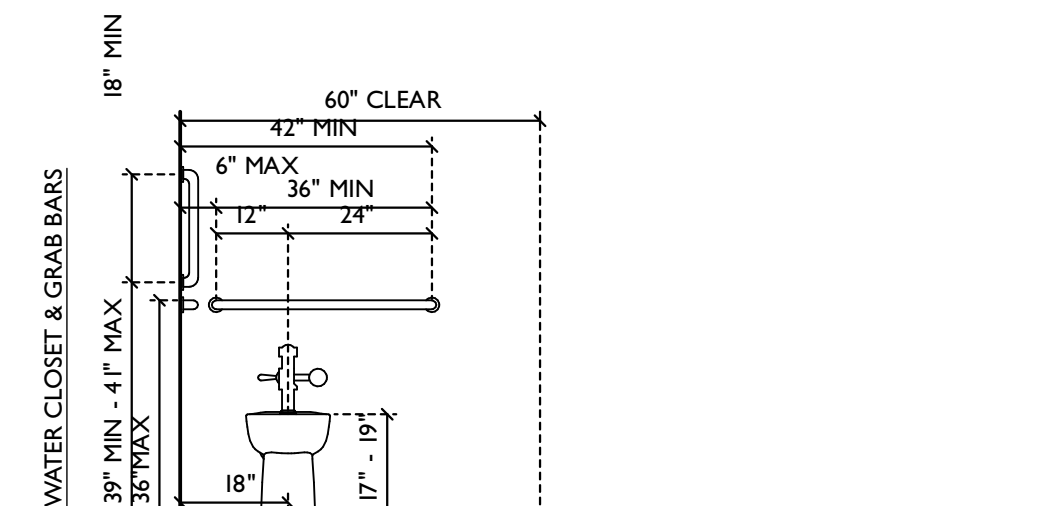
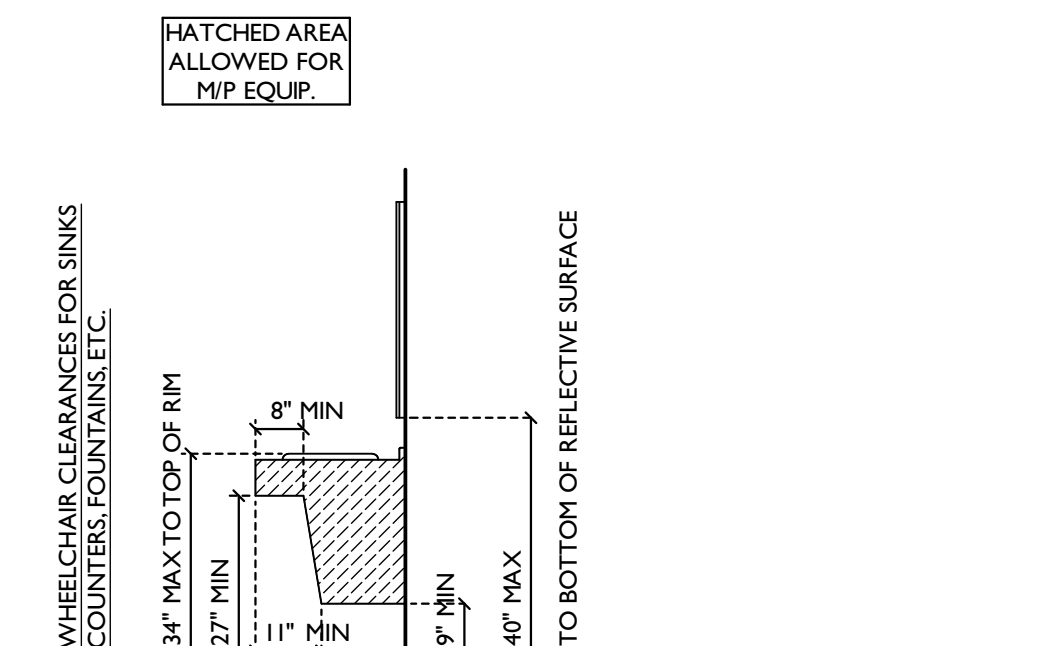
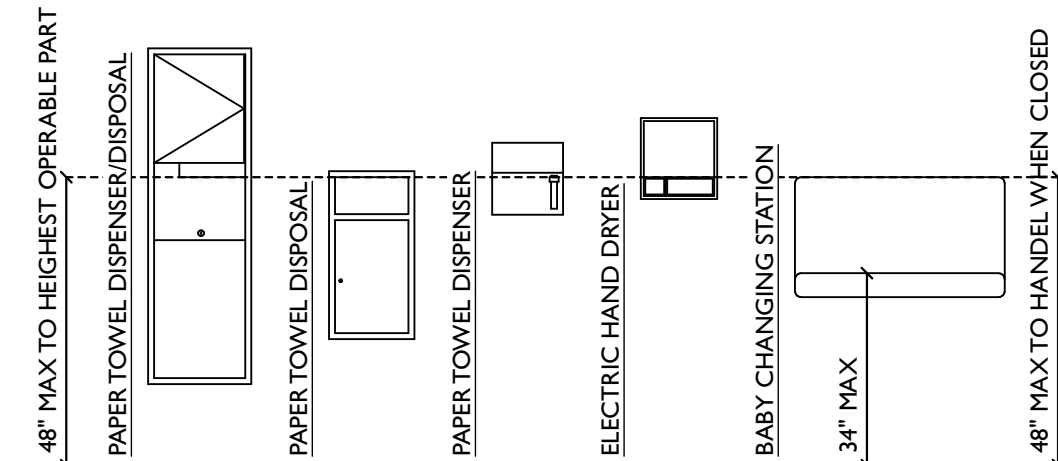
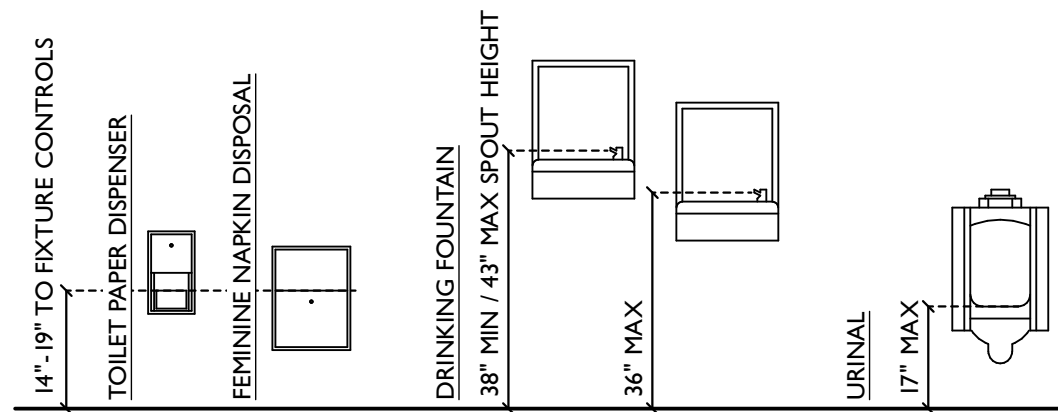
Listed material colors below denote colors represented in the Modernwash renders. Please note colors shown in render may vary depending on monitor or device as well as shadow and light settings. Not all items listed below necessitate the material is included in Modernwash's scope therefore some items may be supplied by others. Confirm materials supplied by modernwash with quote. By signing you give approval to supply the Modernwash materials in the color listed below. Changing color after signing may add additional cost and/or delay.

Color samples provided upon request.

Approved by: Jason Bohnert Date: 4/20/23

Signature: [Signature]

STANDARD ADA REQUIREMENTS



SYMBOLS LEGEND:

1. ZONE/ROOM LABEL
(SEE OCCUPANCY SCHEDULE ON LIFE SAFETY PLAN)
ROOM NAME
ROOM #
AREA
2. DOOR LABEL
(SCHEDULE, SEE MW-7 SHEETS)
PLAN
SECTION/ELEVATION
X
3. WINDOW LABEL
(SCHEDULE, SEE MW-7 SHEETS)
PLAN
SECTION/ELEVATION
WX
4. WALL/PARTITION LABEL
(SEE MW-6.X FOR WALL/SLAB DETAILS)
PLAN
SECTION/ELEVATION
ID
5. SLAB/FLOOR/CEILING LABEL
(SEE FLOOR PLANS)
TYPE
6. ELEVATION MARK
(SEE ELEVATION PLANS)
ELEV.
7. COLUMN LINE
(LOCATION MAY VARY)
A
8. EXTERIOR ELEVATION
(SEE FLOOR PLANS)
A
MW-0.2
9. INTERIOR ELEVATION
(SEE MW-3 SHEETS)
A
D
MW-0.2
B
C
10. BUILDING SECTION
(SEE MW-1 SHEETS)
A
MW-0.2
A
MW-0.2
11. PARTIAL/WALL SECTION
(SEE FLOOR PLANS &/OR SECTIONS)
A
MW-0.2
12. DETAIL/ENLARGEMENT REFERENCE
(LOCATION MAY VARY)
A
MW-0.2
13. REVISION REFERENCE
(SEE SHEET INDEX & REVISION TABLE)
#

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BOWLING GREEN, KY 42104

MODEL: AXIOM BETA
RETAIL TOWER
2023

4 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



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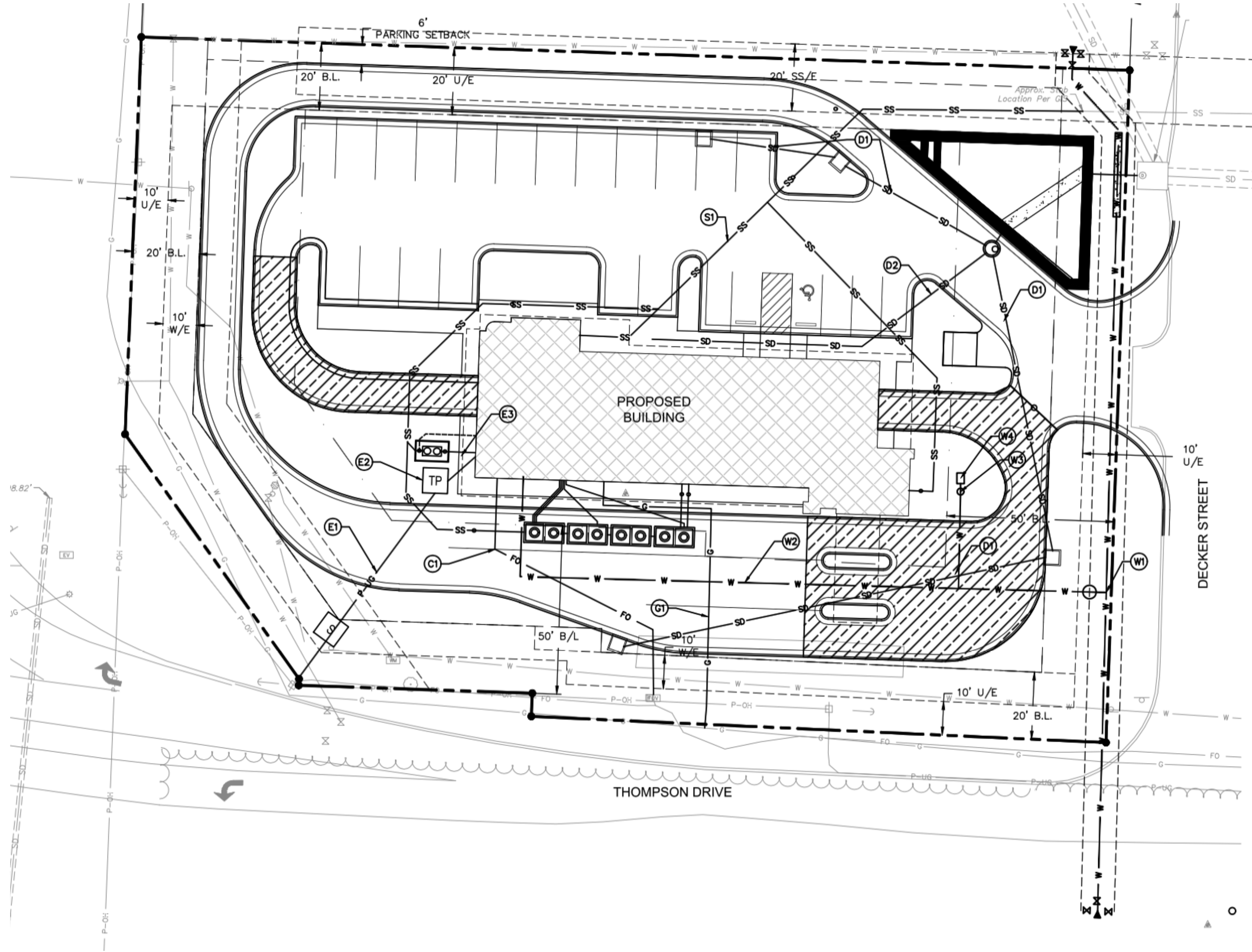
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CHECKED BY: #####

SHEET:

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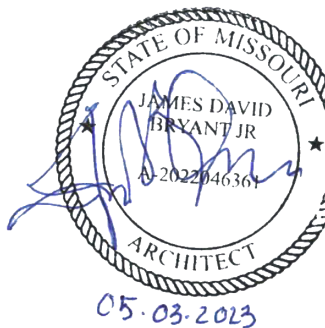
MODEL: AXIOM BETA
RETAIL TOWER
2023

5 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



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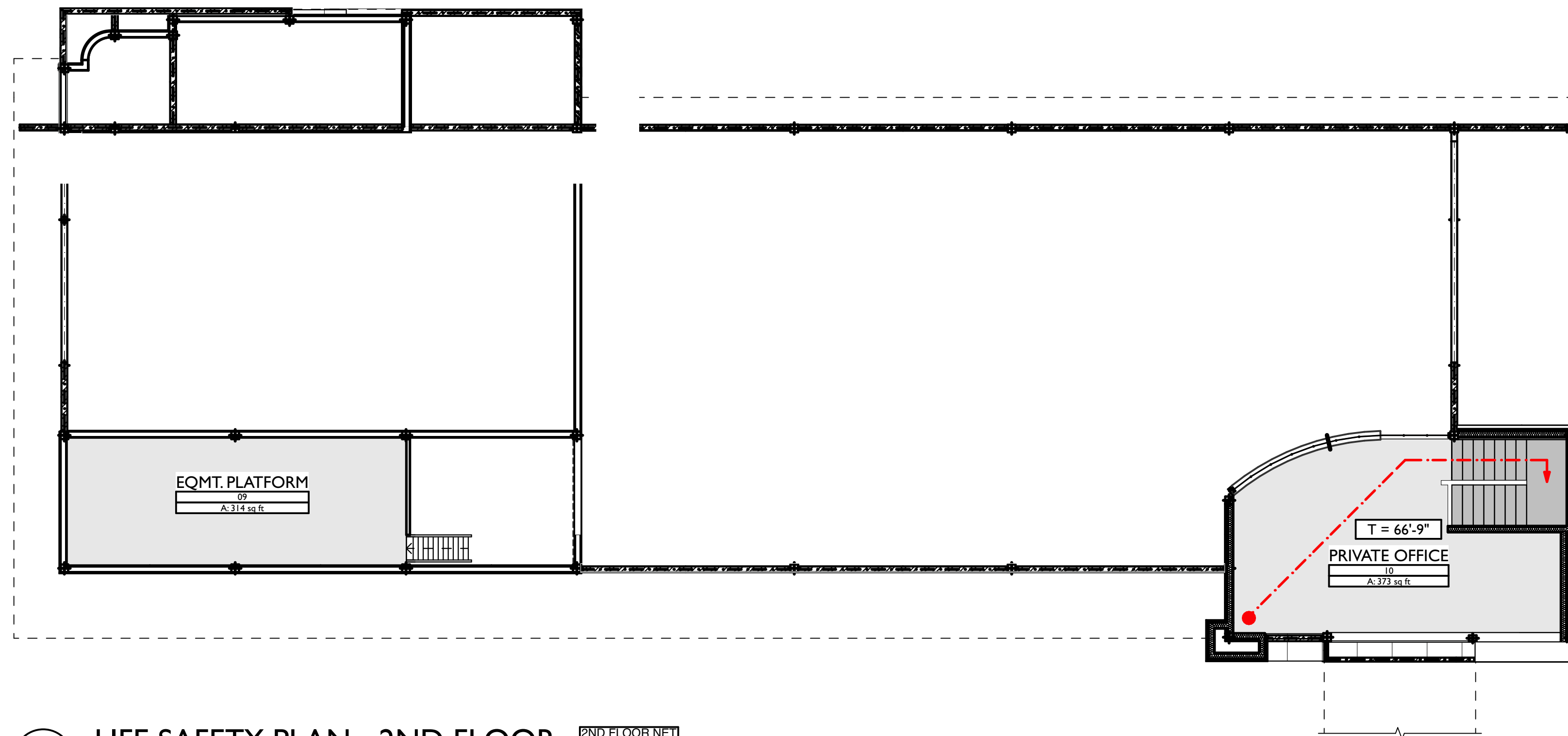
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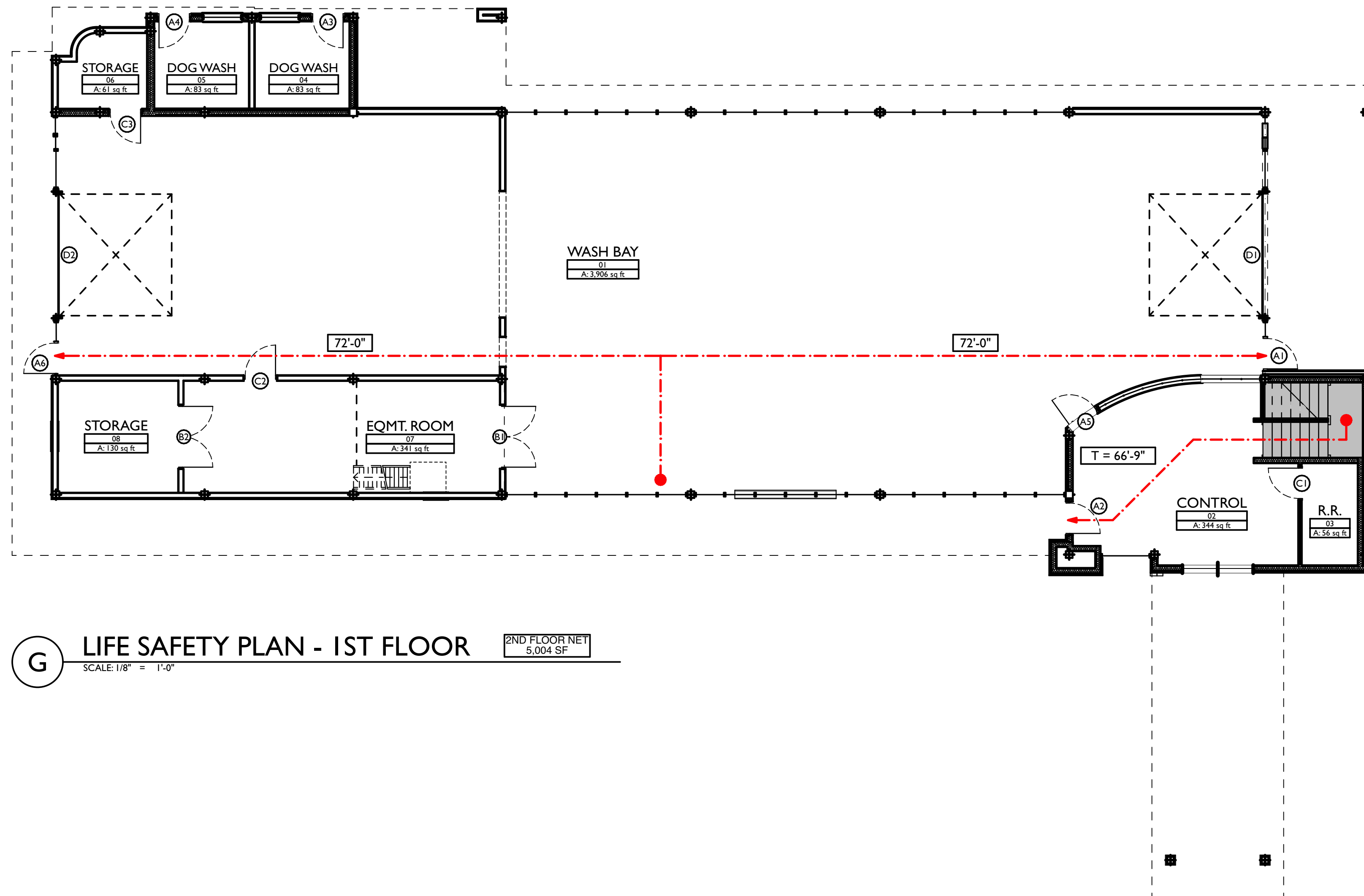
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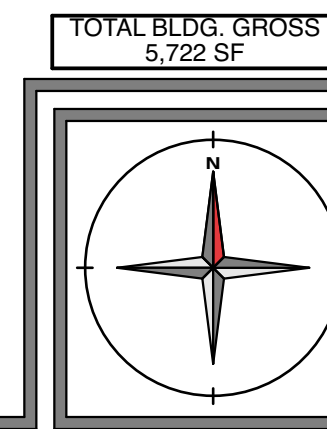
SITE PLAN



B LIFE SAFETY PLAN - 2ND FLOOR 2ND FLOOR NET 373 SF
SCALE: 1/8" = 1'-0"



G LIFE SAFETY PLAN - 1ST FLOOR 2ND FLOOR NET 5,004 SF
SCALE: 1/8" = 1'-0"



TOTAL BLDG. GROSS
5,722 SF

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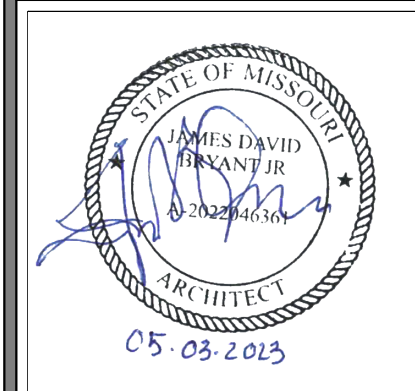
**MODEL: AXIOM BETA
RETAIL TOWER
2023**

6 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
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LIFE SAFETY PLAN

[illegible]

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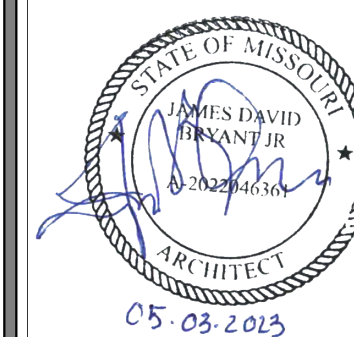


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MODEL: AXIOM BETA
RETAIL TOWER
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NEW CAR WASH FOR:
TUNNEL VISION CAR WASH
20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



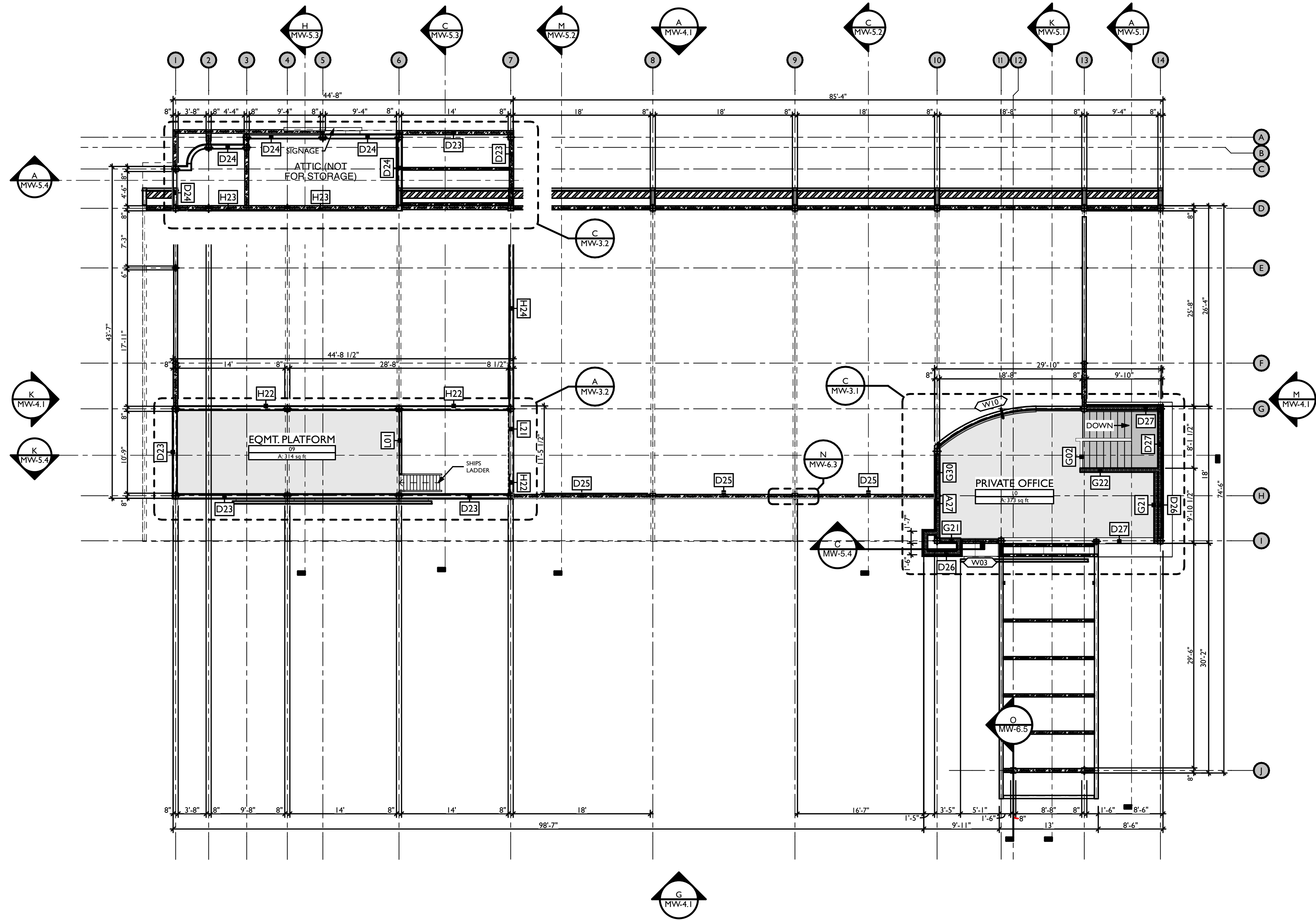
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DRAWN BY:	EWB, CBI
CHECKED BY:	T

SHEET:

MW-1.1

1st FLOOR PLAN



B 2nd FLOOR
SCALE: 1/8" = 1'-0"
SECOND FLOOR GSF
A: 518 SQ. FT.

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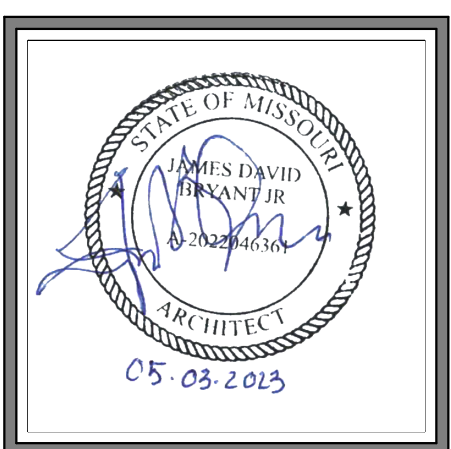
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**MODEL: AXIOM BETA
RETAIL TOWER
2023**

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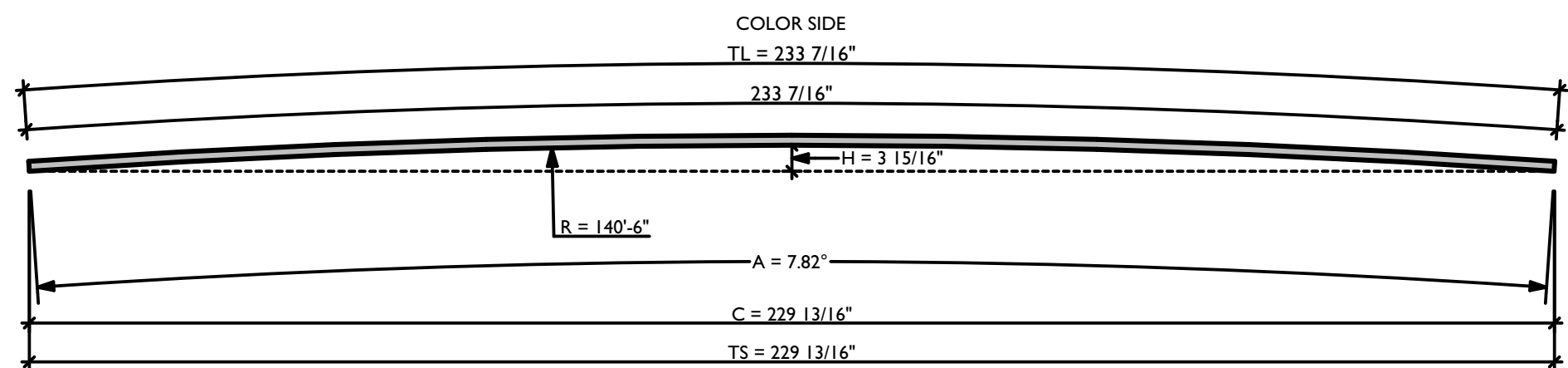
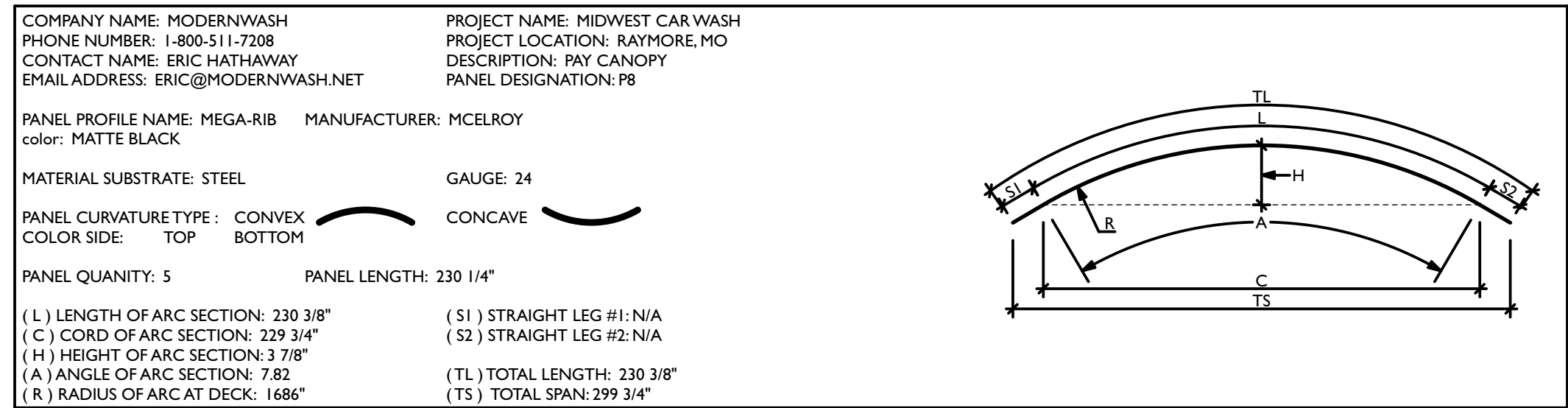
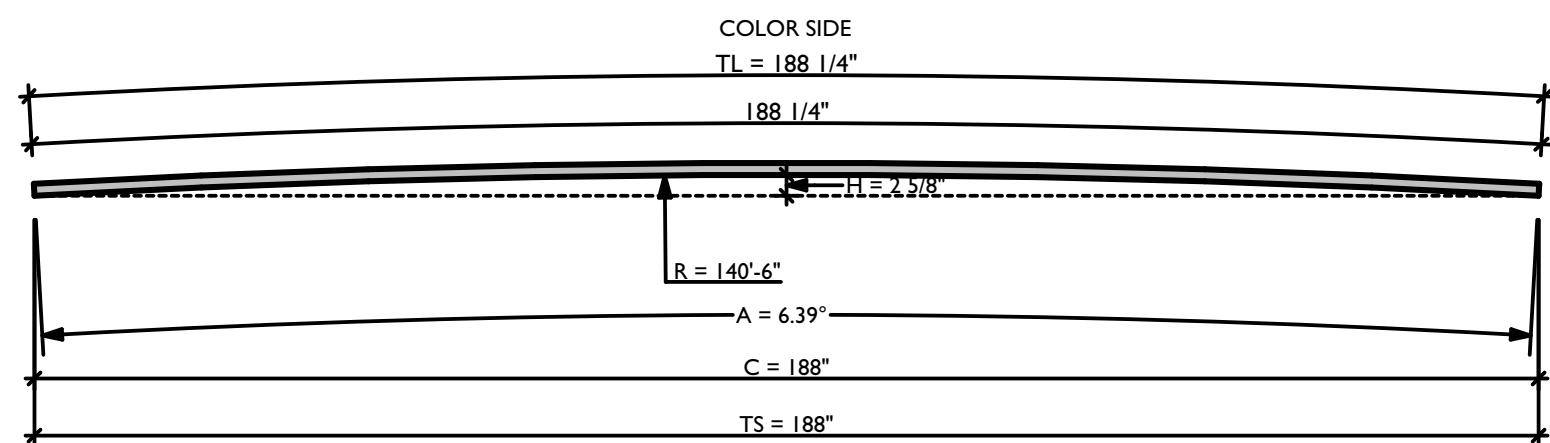
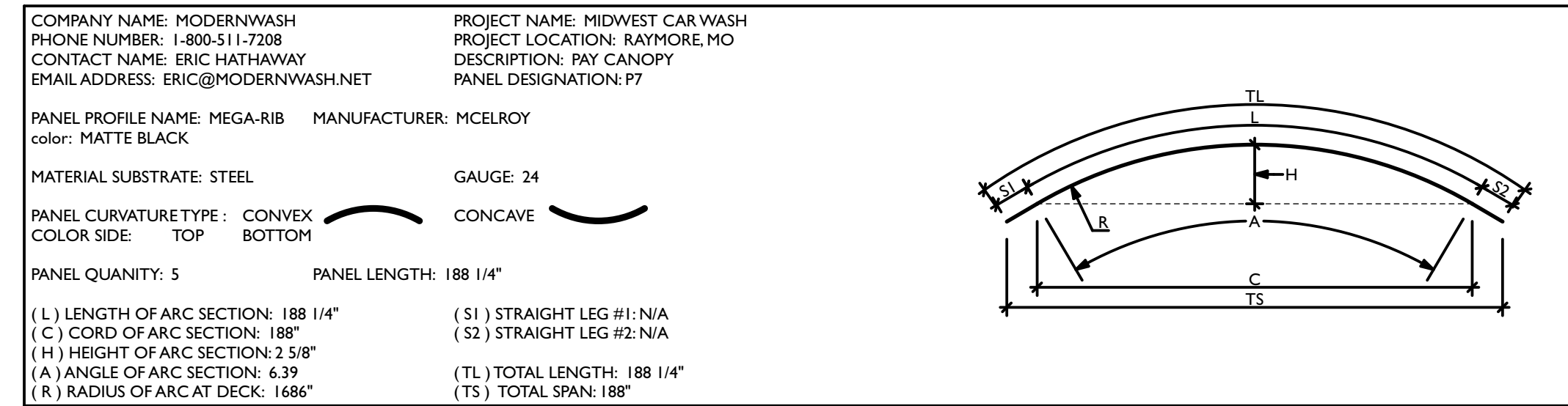
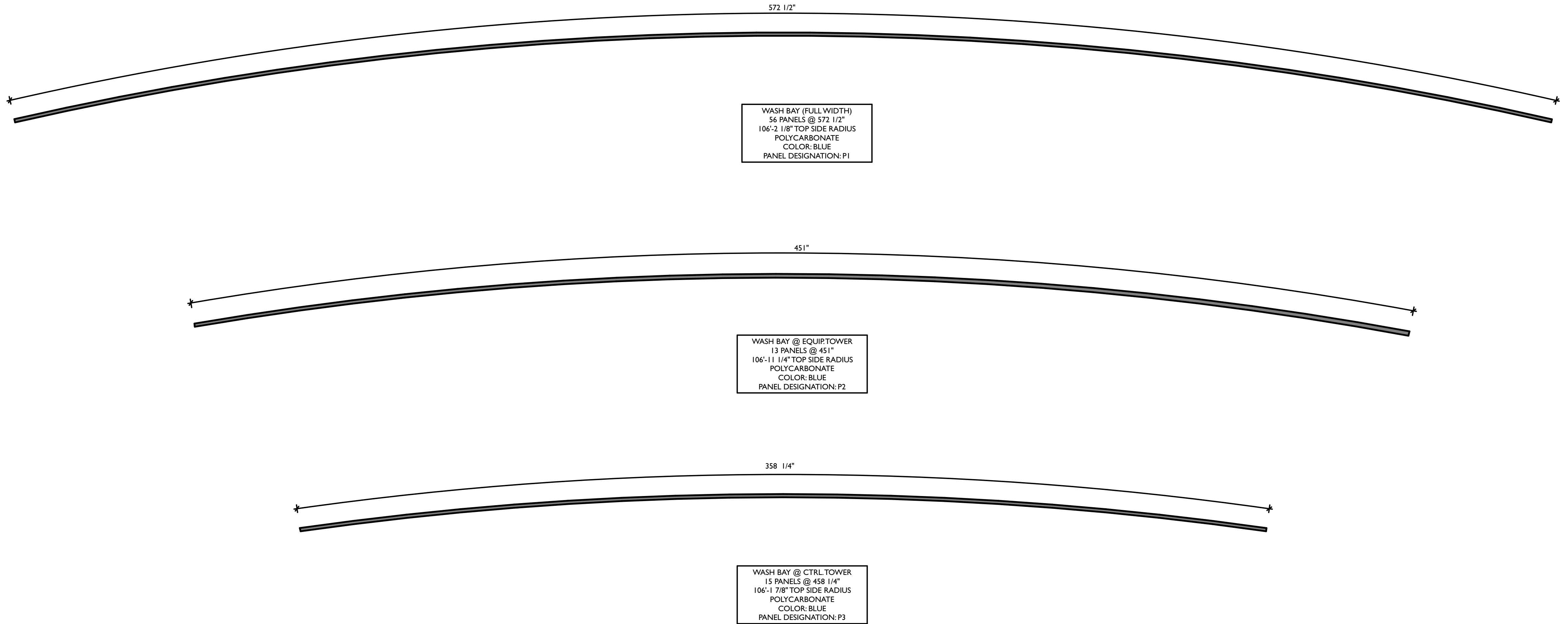
NEW CAR WASH FOR:
TUNNEL VISION CAR WASH
20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



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PLOT DATE: 5/3/23
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CHECKED BY: TL

SHEET:
MW-I.2
2nd FLOOR PLAN



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MODEL: AXIOM BETA
RETAIL TOWER
2023

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NEW CAR WASH FOR:

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20 SE THOMPSON DR
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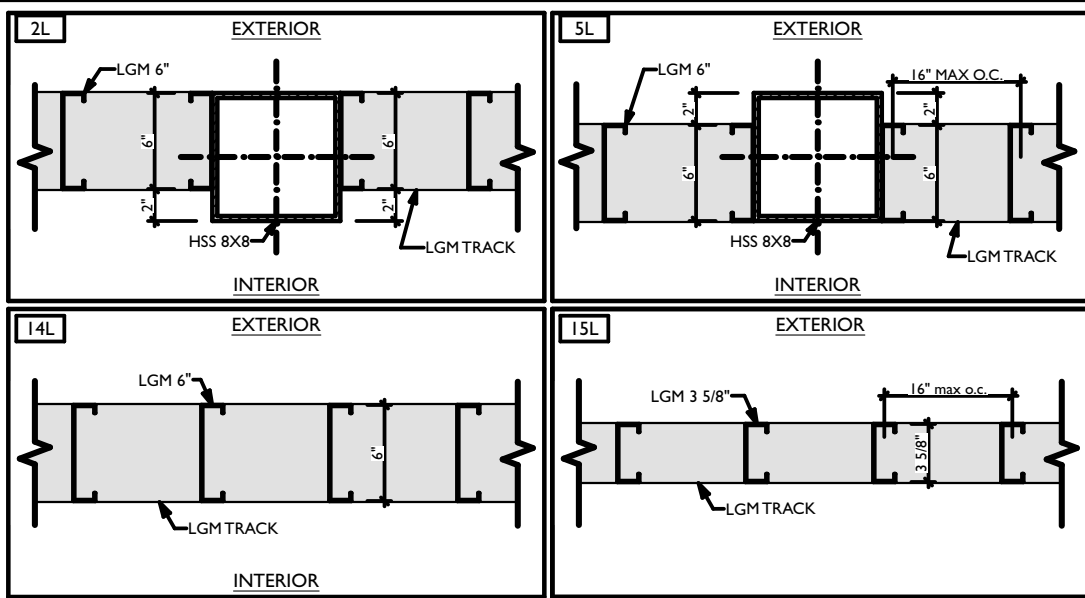
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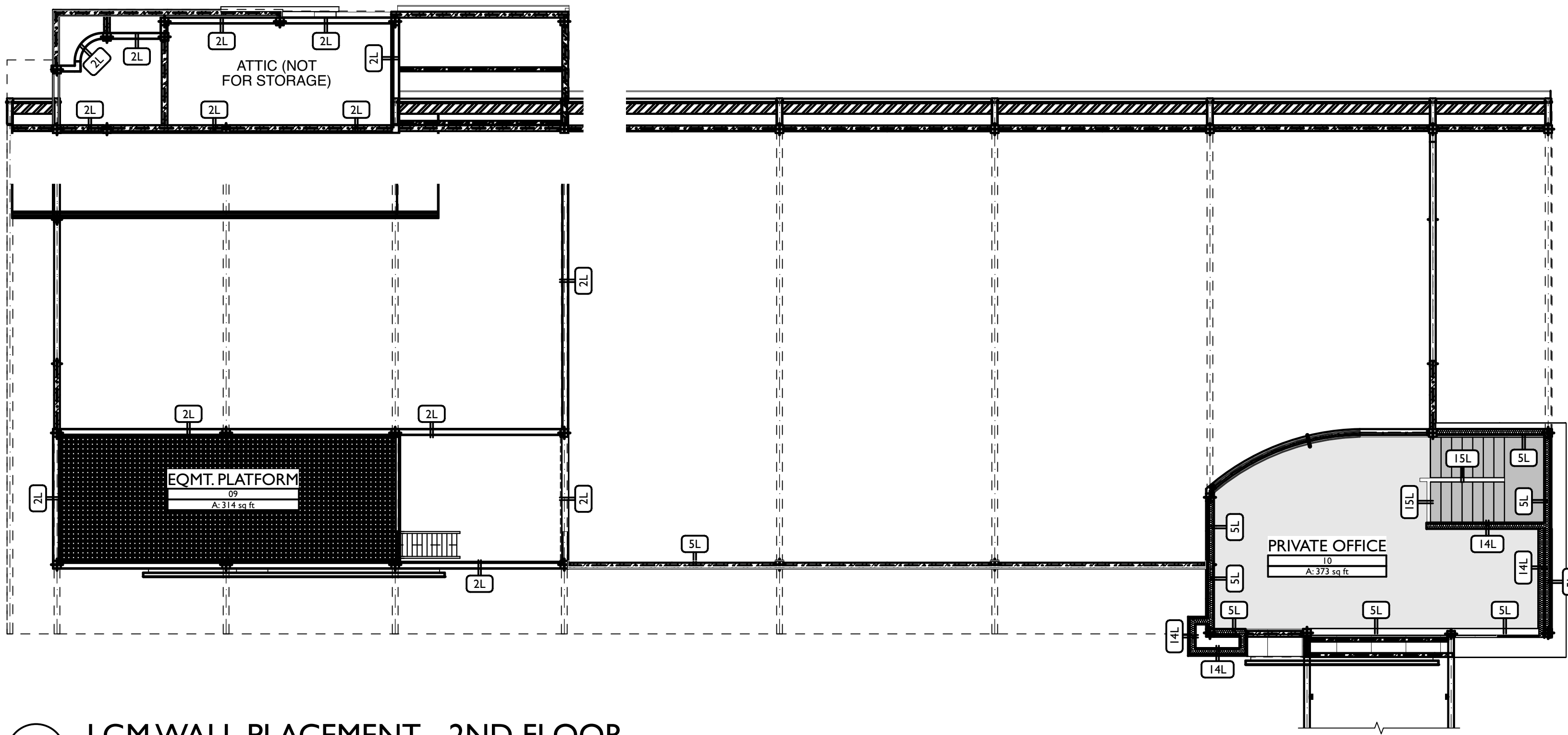
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ROOF PANEL CUTSHEETS

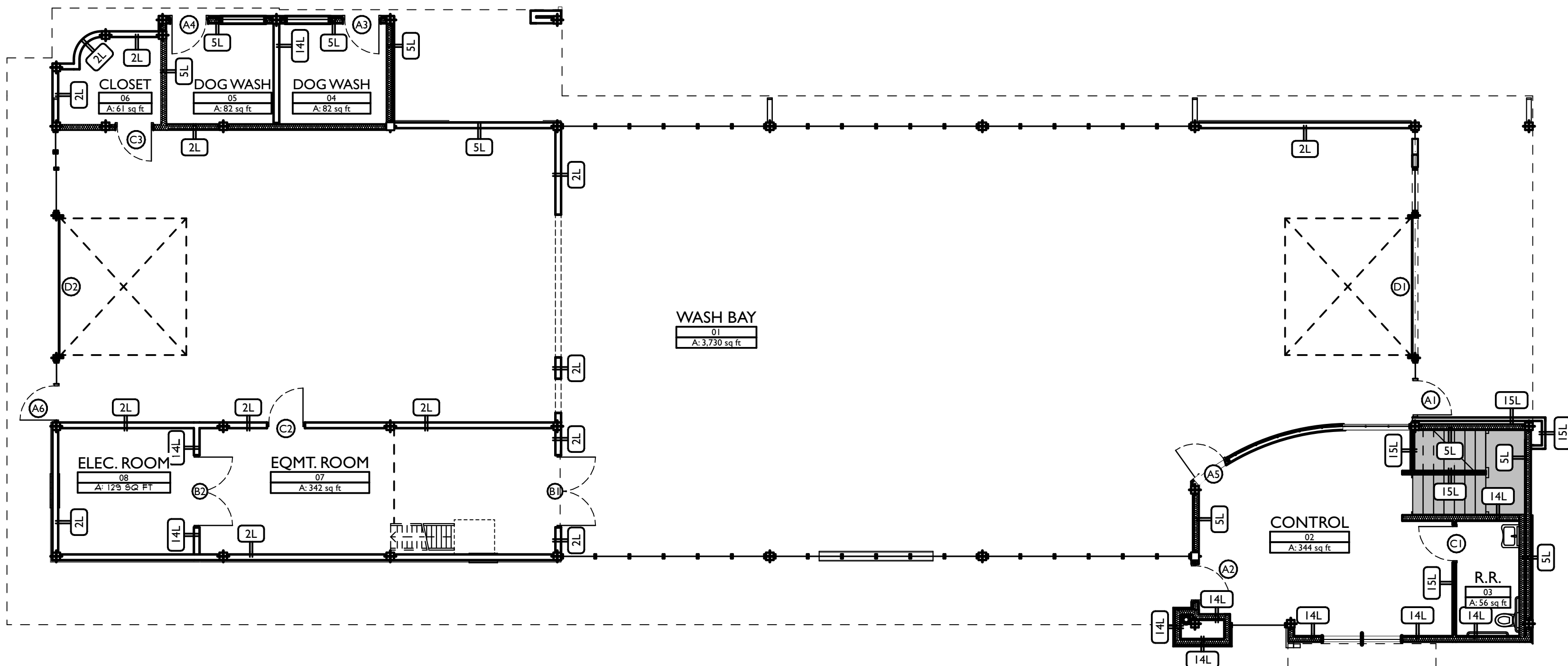


NOTE:
INTERIOR BUILDING WALL PLACEMENT ASSUMES THE WASH BAY IS CONSIDERED TO BE THE EXTERIOR SIDE OF THE WALL.

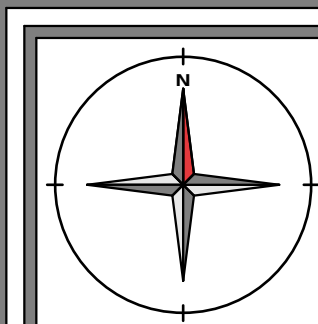
SHEATHING, FINISH, AND INSULATION IS NOT SHOWN FOR CLARITY. SEE WALL TYPE DETAILS FOR ACTUAL WALL COMPOSITION.



B LGM WALL PLACEMENT - 2ND FLOOR
SCALE: 1/8" = 1'-0"



G LGM WALL PLACEMENT - 1ST FLOOR
SCALE: 1/8" = 1'-0"



REVISIONS		
ID	DATE	DESCRIPTION
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MODERNWASH
5220 SCOTTSVILLE ROAD
BOWLING GREEN, KY 42104

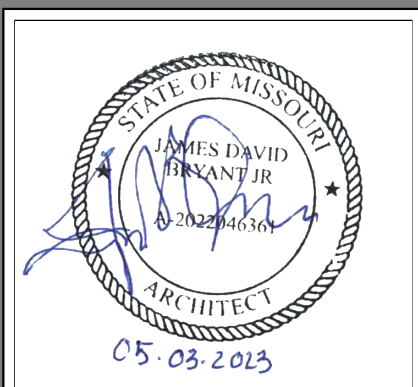
**MODEL: AXIOM BETA
RETAIL TOWER
2023**

11 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081

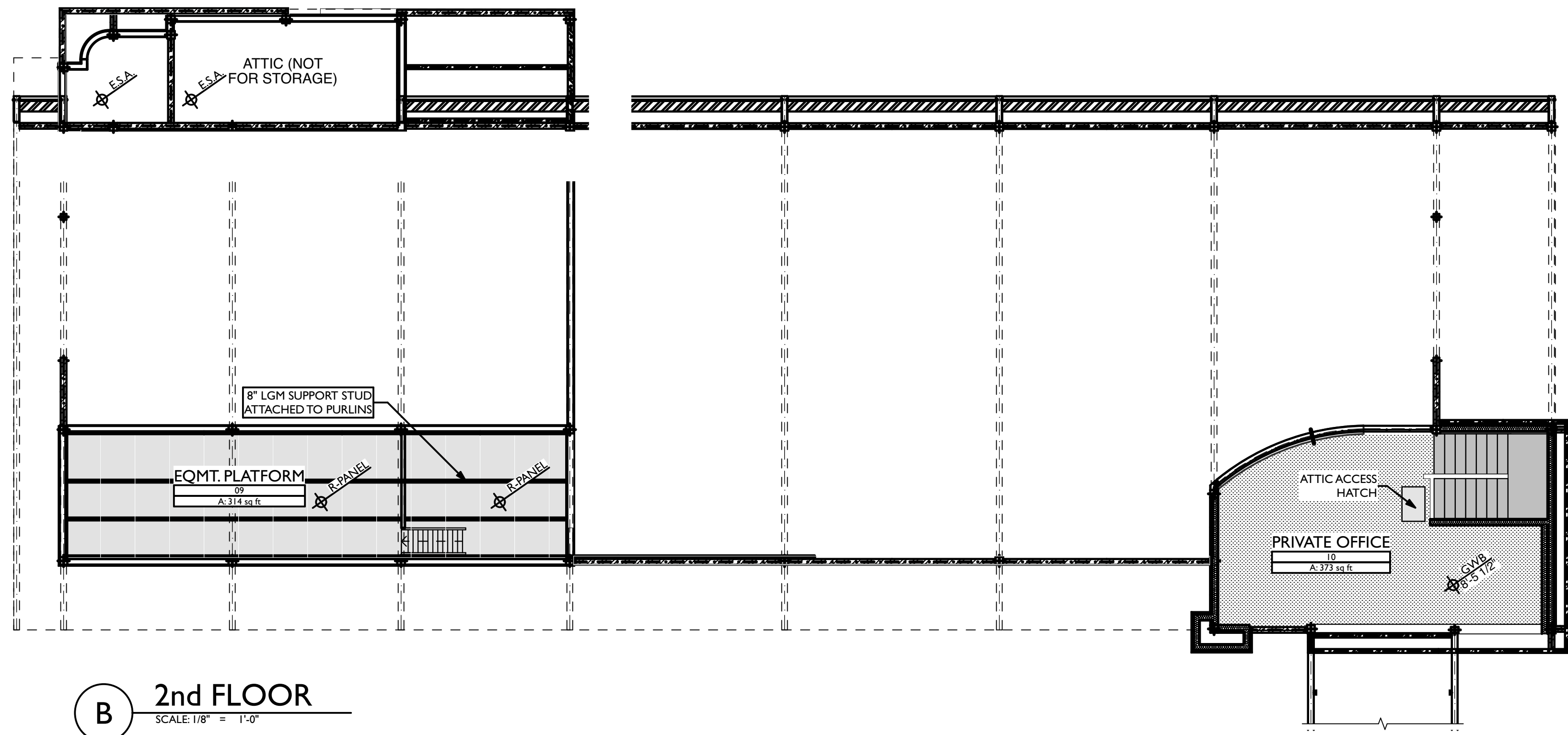


USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.

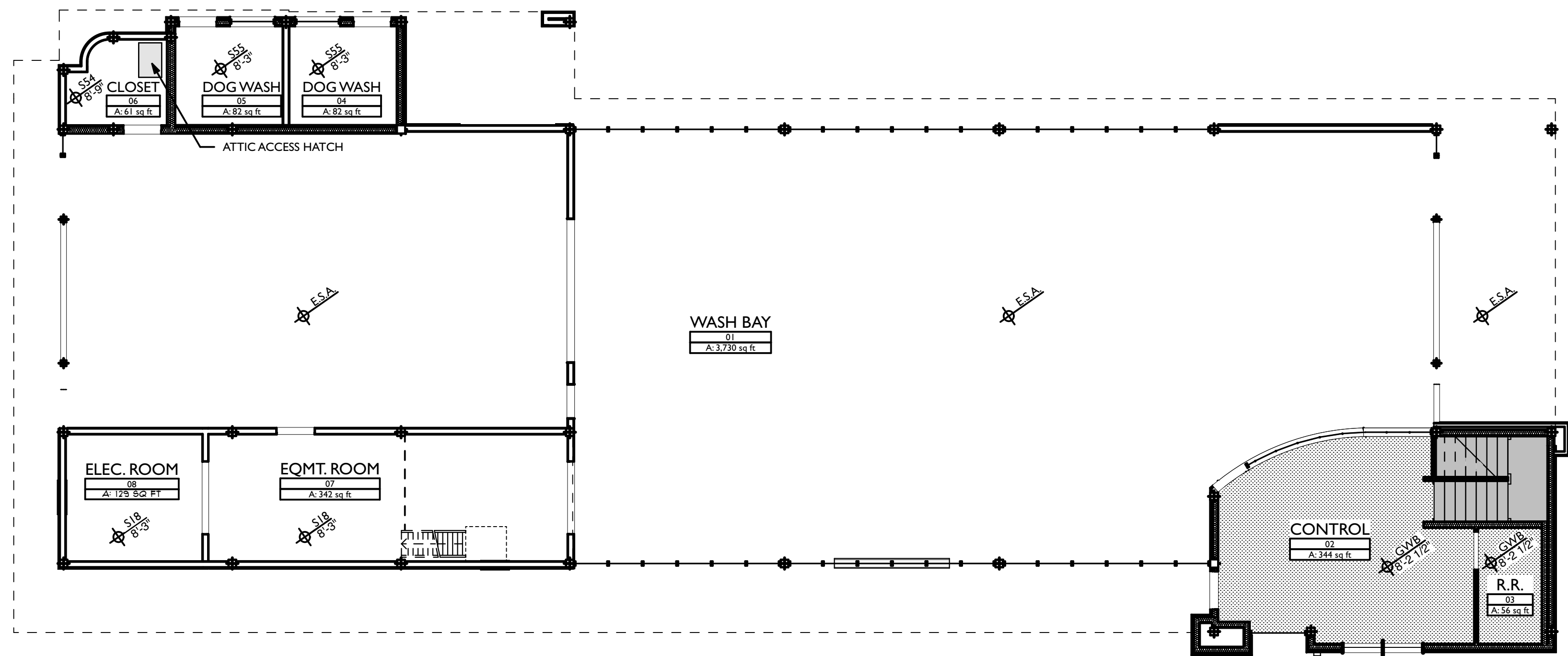


PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: TL

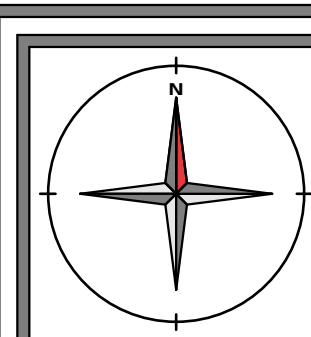
SHEET:
MW-I.5
LGM WALL PLACEMENT



B 2nd FLOOR
SCALE: 1/8" = 1'-0"



G 1st FLOOR
SCALE: 1/8" = 1'-0"



REVISIONS	
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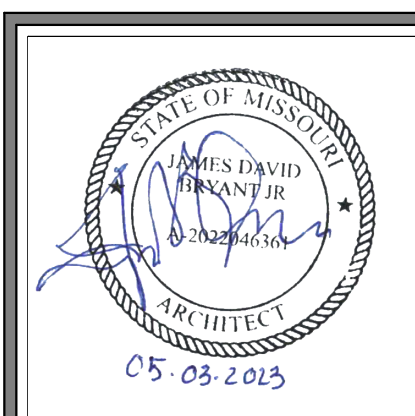
**MODEL: AXIOM BETA
RETAIL TOWER
2023**

12 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.



PRELIMINARY

PLOT DATE: 5/3/23

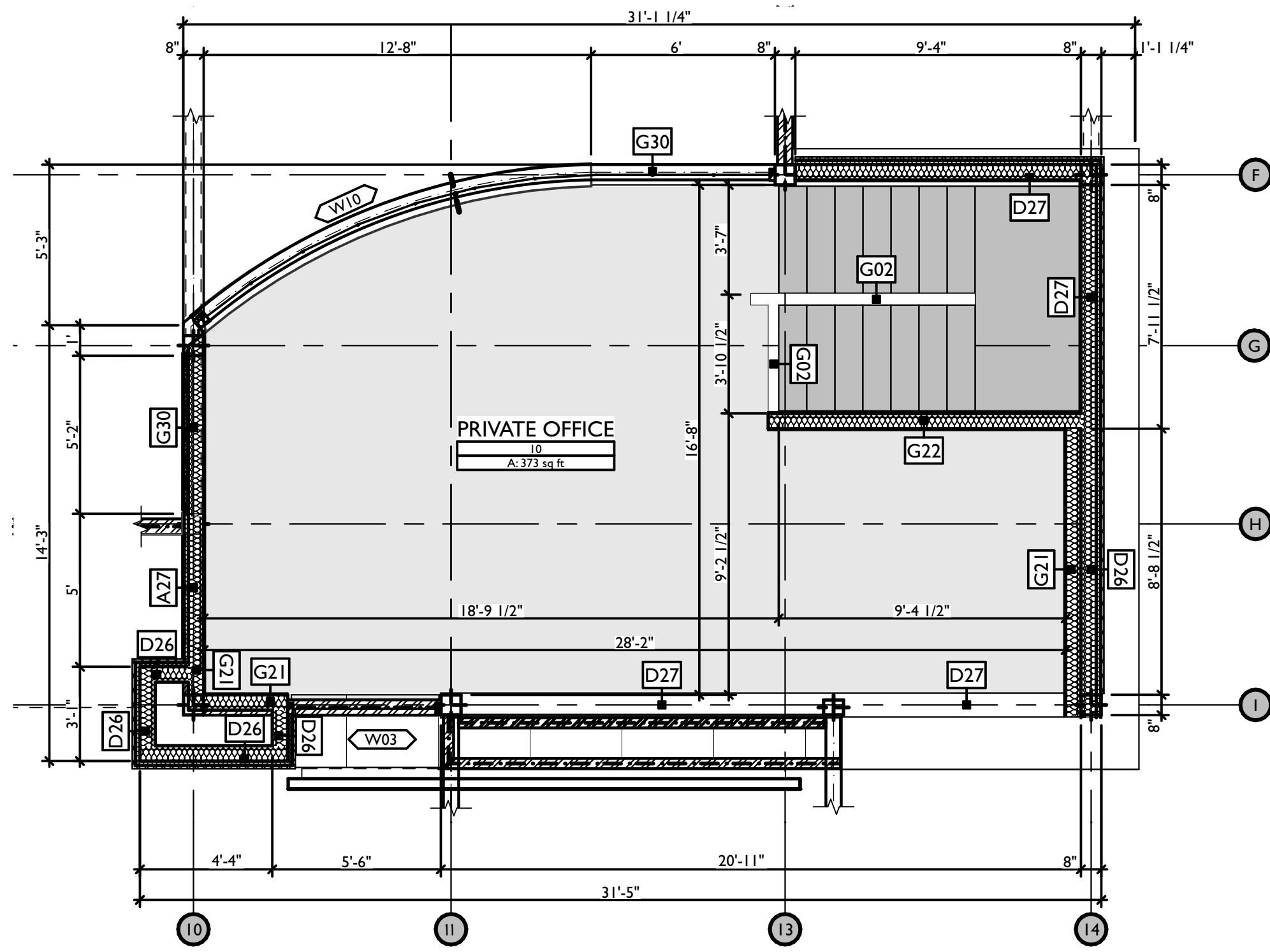
DRAWN BY: EWH, CBH

CHECKED BY: TL

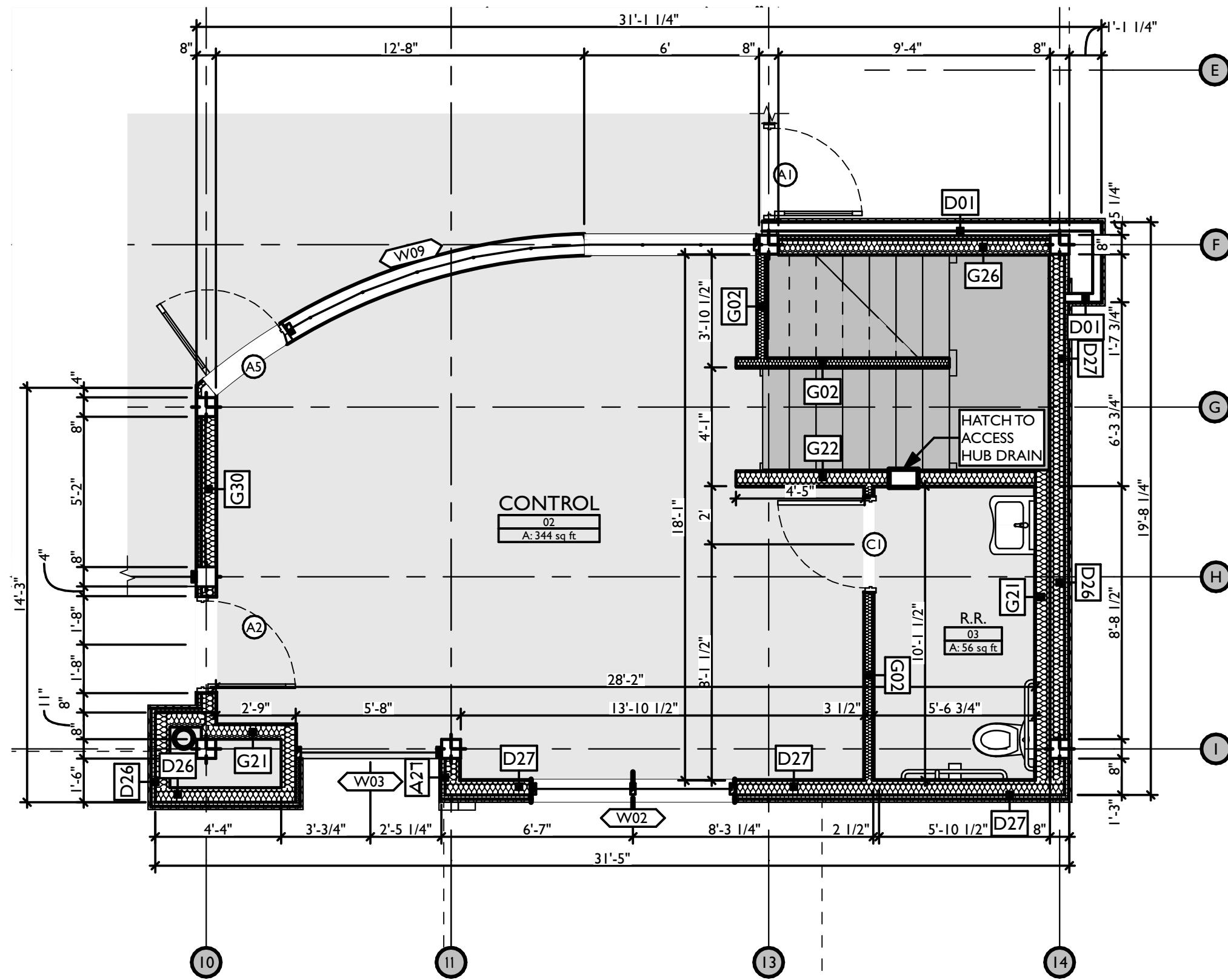
SHEET:

MV-2.1

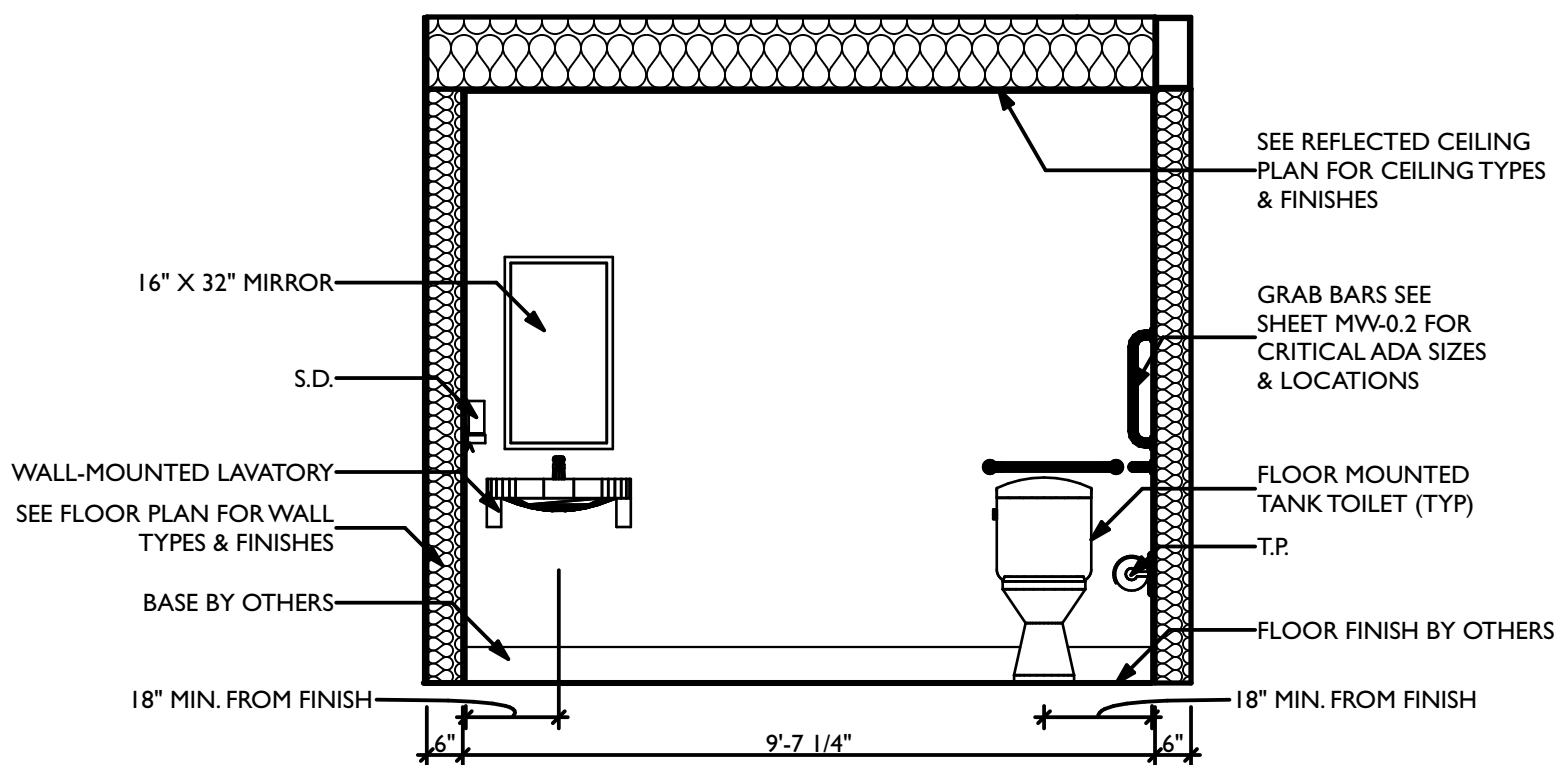
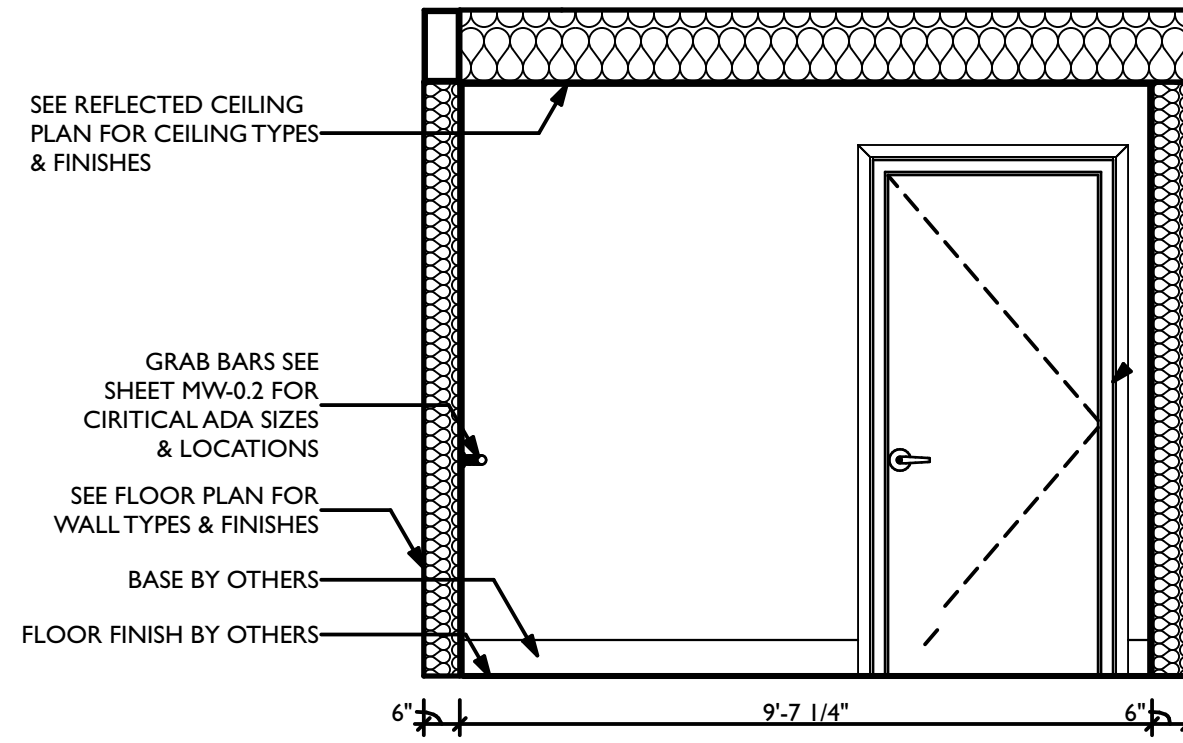
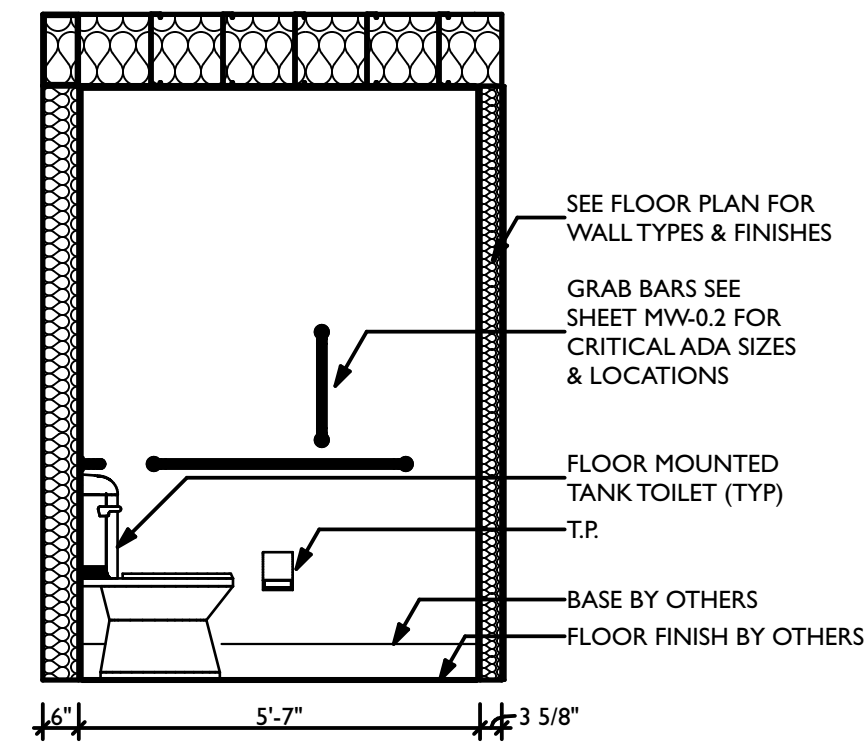
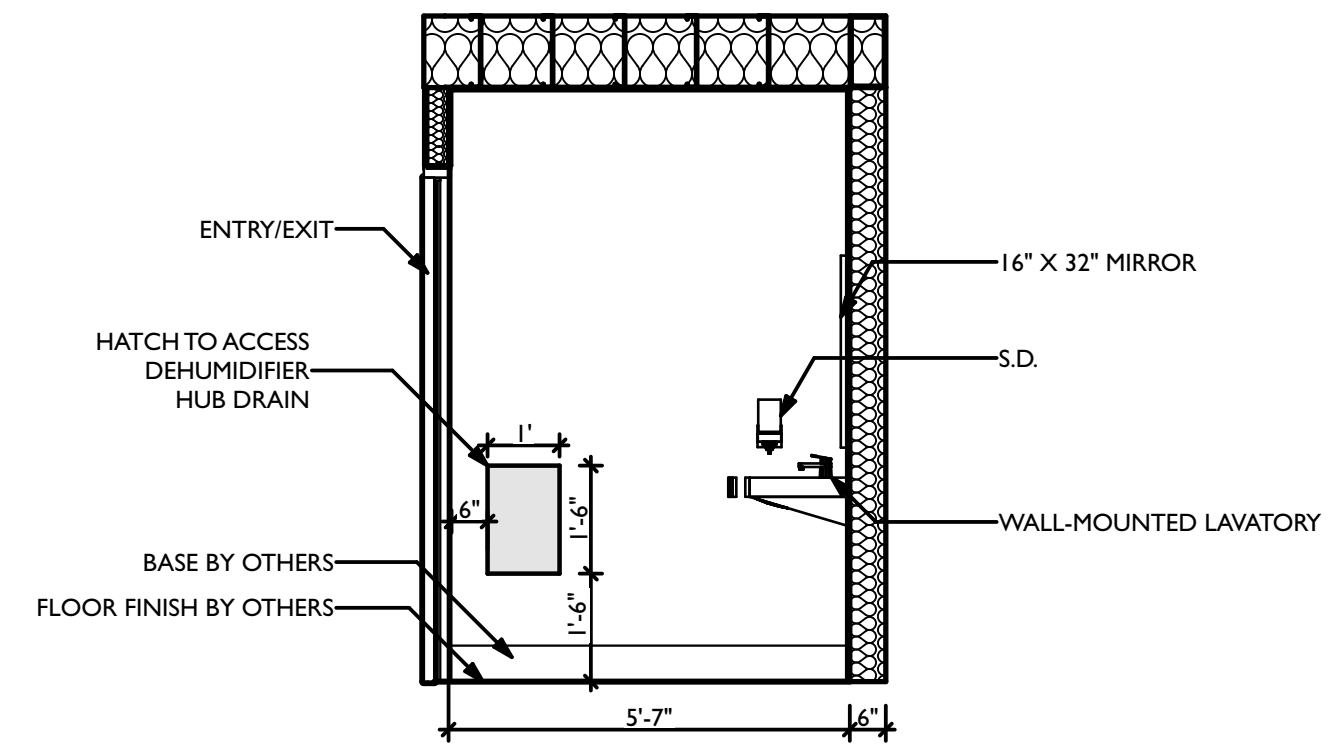
REFLECTED CEILING PLANS



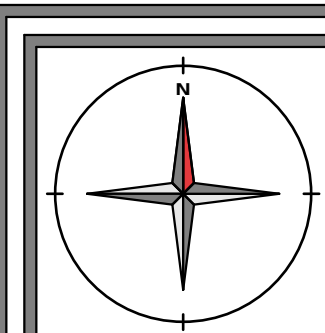
C CONTROL TOWER - 2ND FLOOR
SCALE: 1/4" = 1'-0"



H CONTROL TOWER - 1ST FLOOR
SCALE: 1/4" = 1'-0"



E R.R. ENLARGED ELEVATIONS
SCALE: 3/8" = 1'-0"



REVISIONS		
ID	DATE	DESCRIPTION
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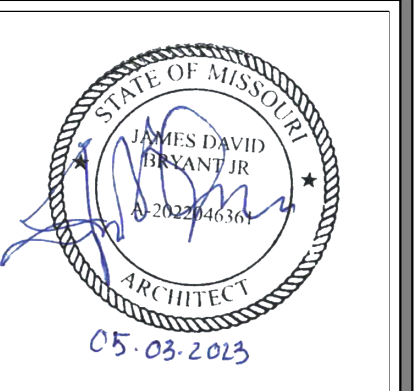
MODERNWASH
5220 SCOTTSDALE ROAD
BOWLING GREEN, KY 42004

**MODEL: AXIOM BETA
RETAIL TOWER
2023**

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081

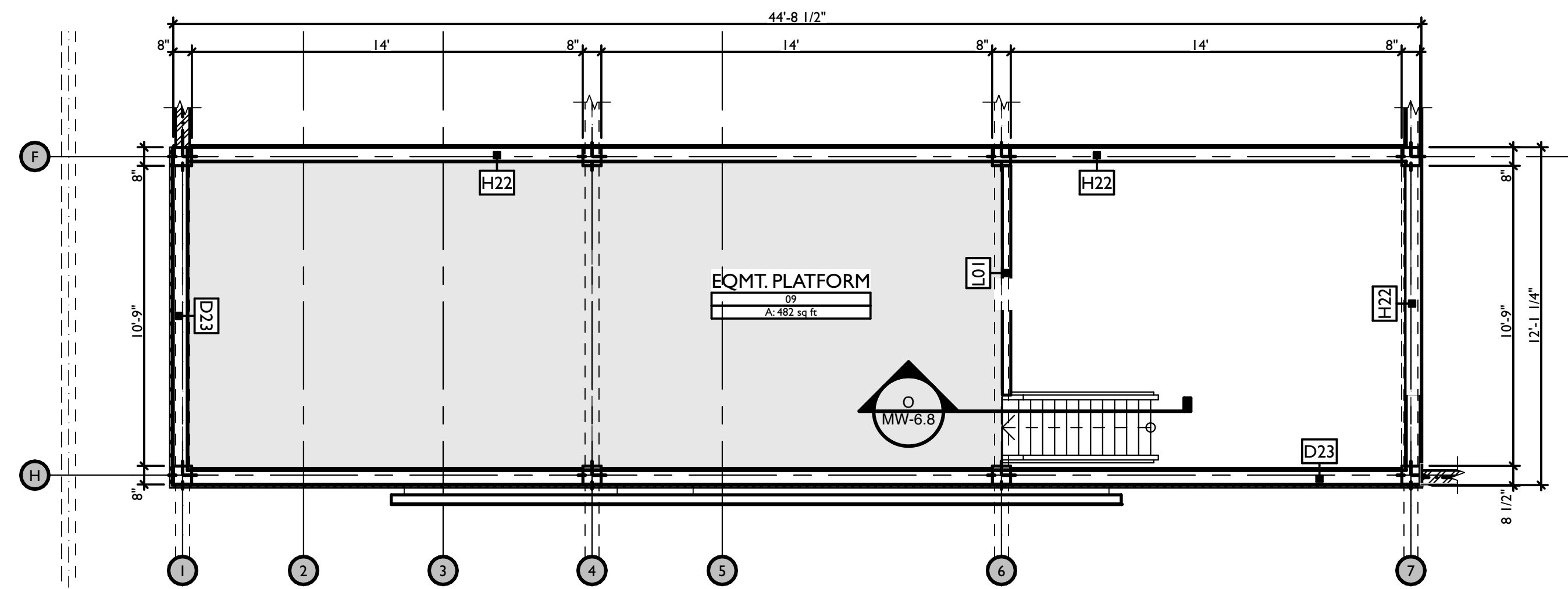


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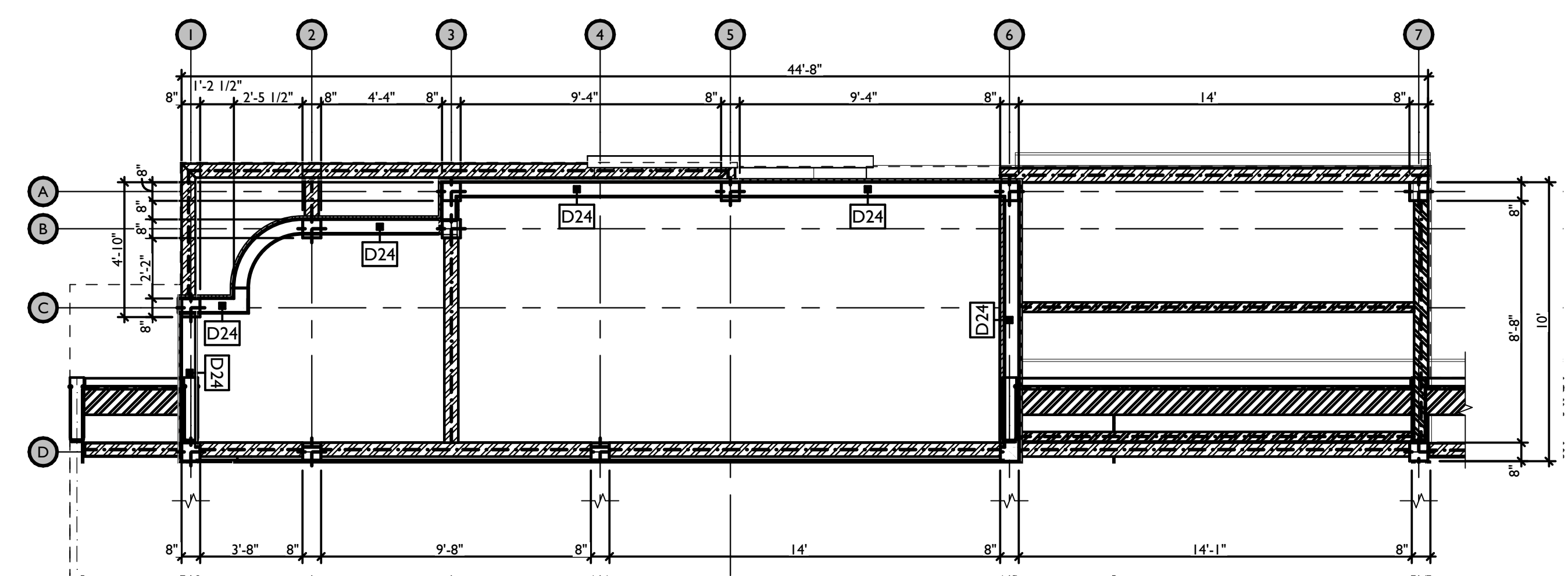
PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: TL

SHEET:
MW-3.1

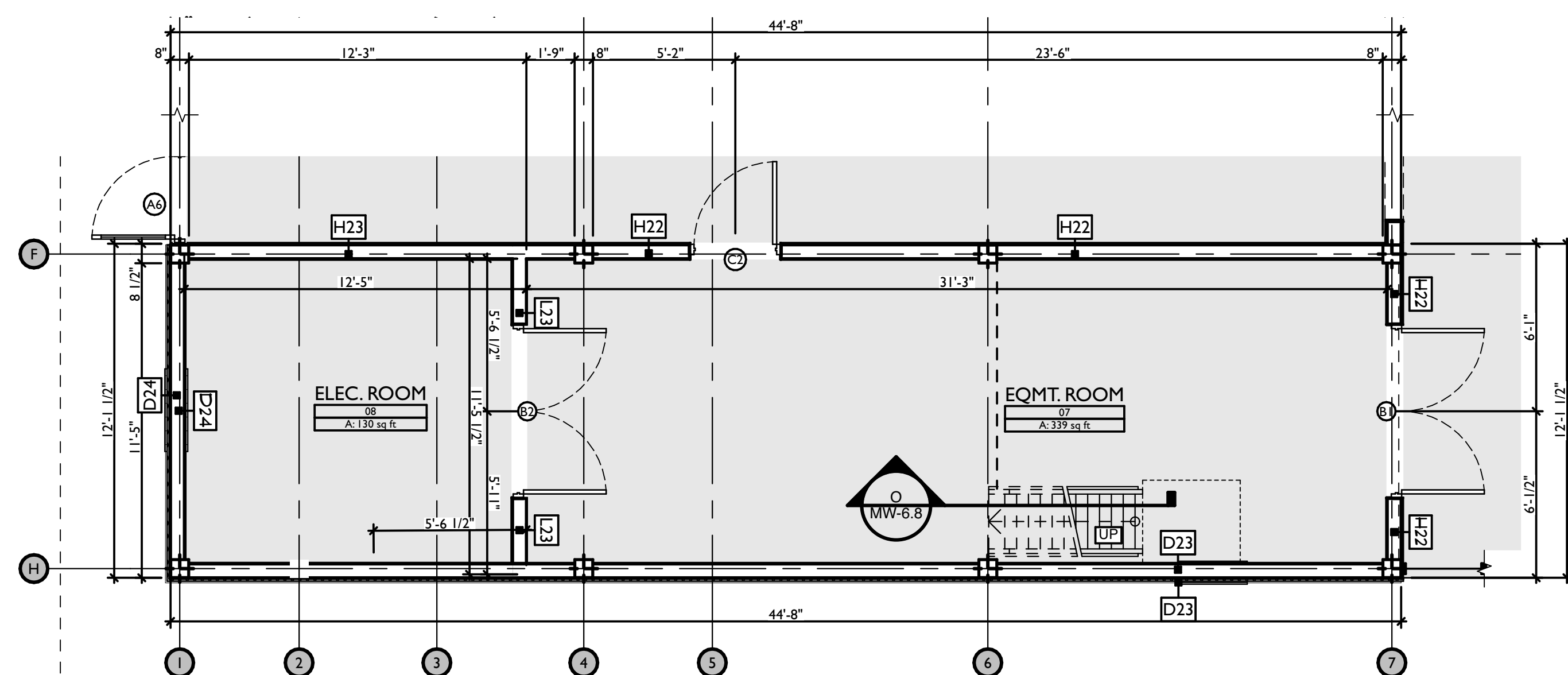
ENLARGED PLANS



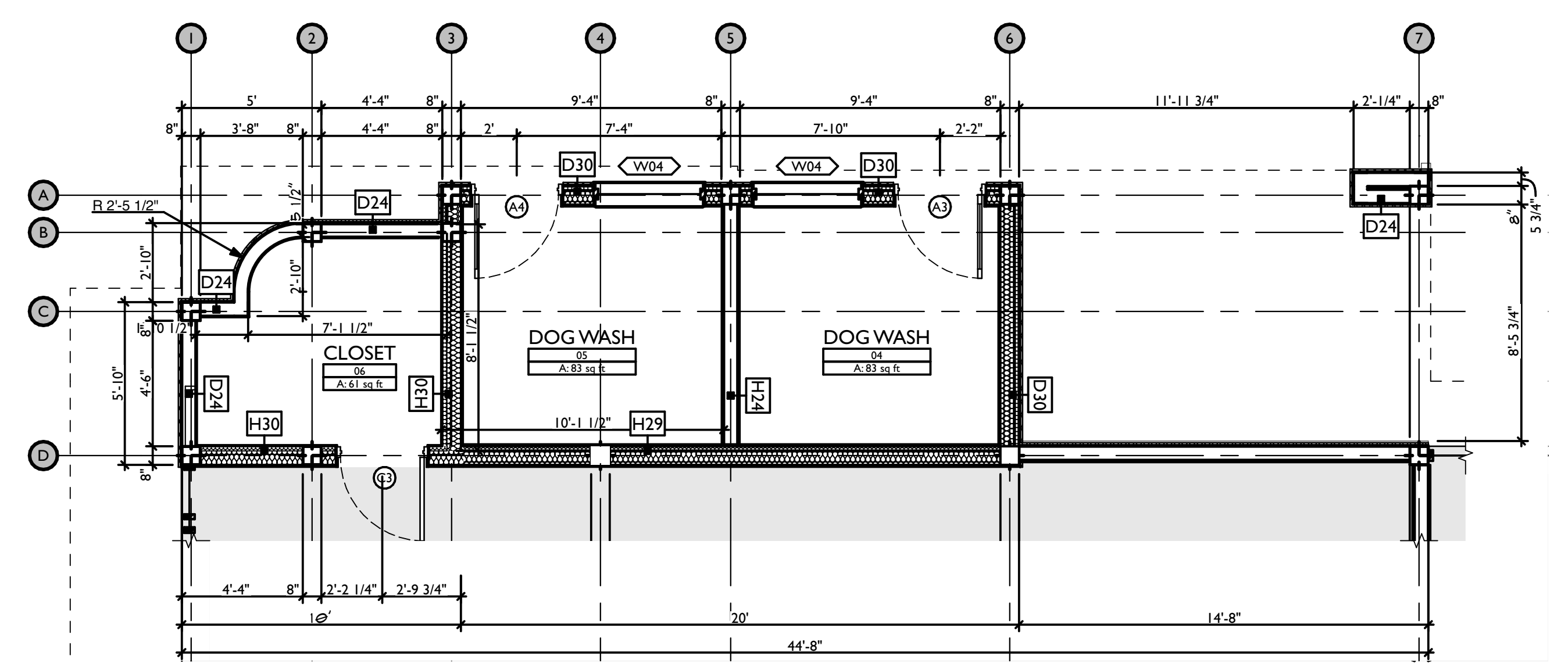
A EQMT. ROOM - PLATFORM
SCALE: 1/4" = 1'-0"



C DOG WASH TOWER - 2ND FLOOR
SCALE: 1/4" = 1'-0"



K EQMT. ROOM - 1ST FLOOR
SCALE: 1/4" = 1'-0"



M DOG WASH TOWER - 1ST FLOOR
SCALE: 1/4" = 1'-0"

REVISIONS		
ID	DATE	DESCRIPTION
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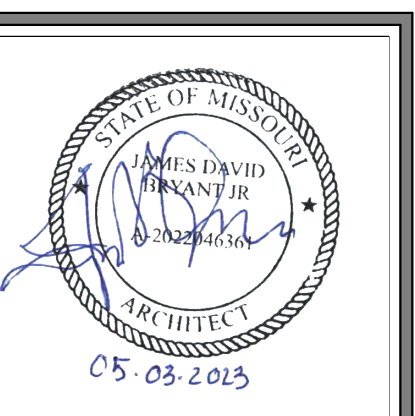
**MODEL: AXIOM BETA
RETAIL TOWER
2023**

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NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.

PRELIMINARY

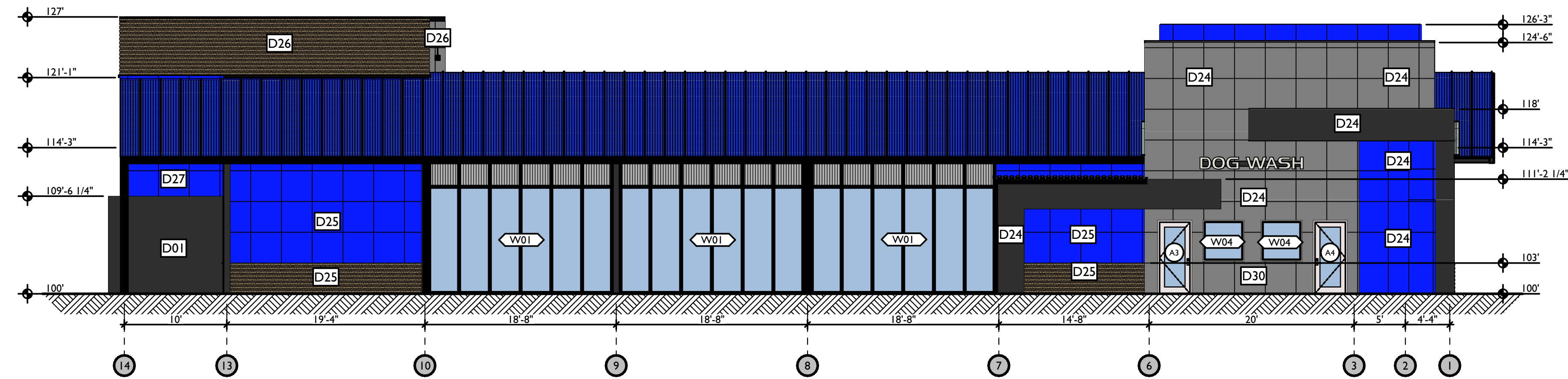
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####

SHEET:

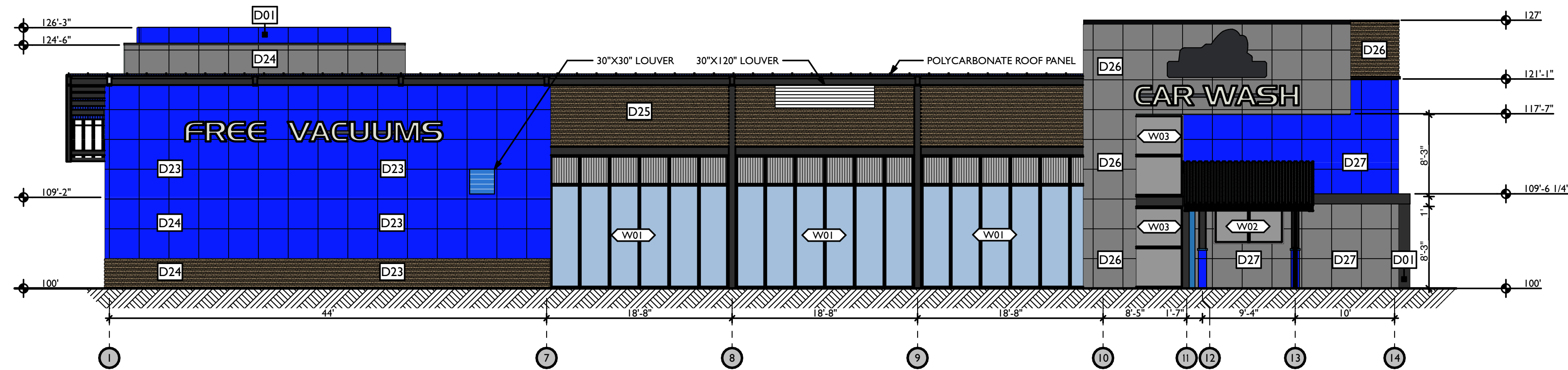
MV-3.2

ENLARGED PLANS

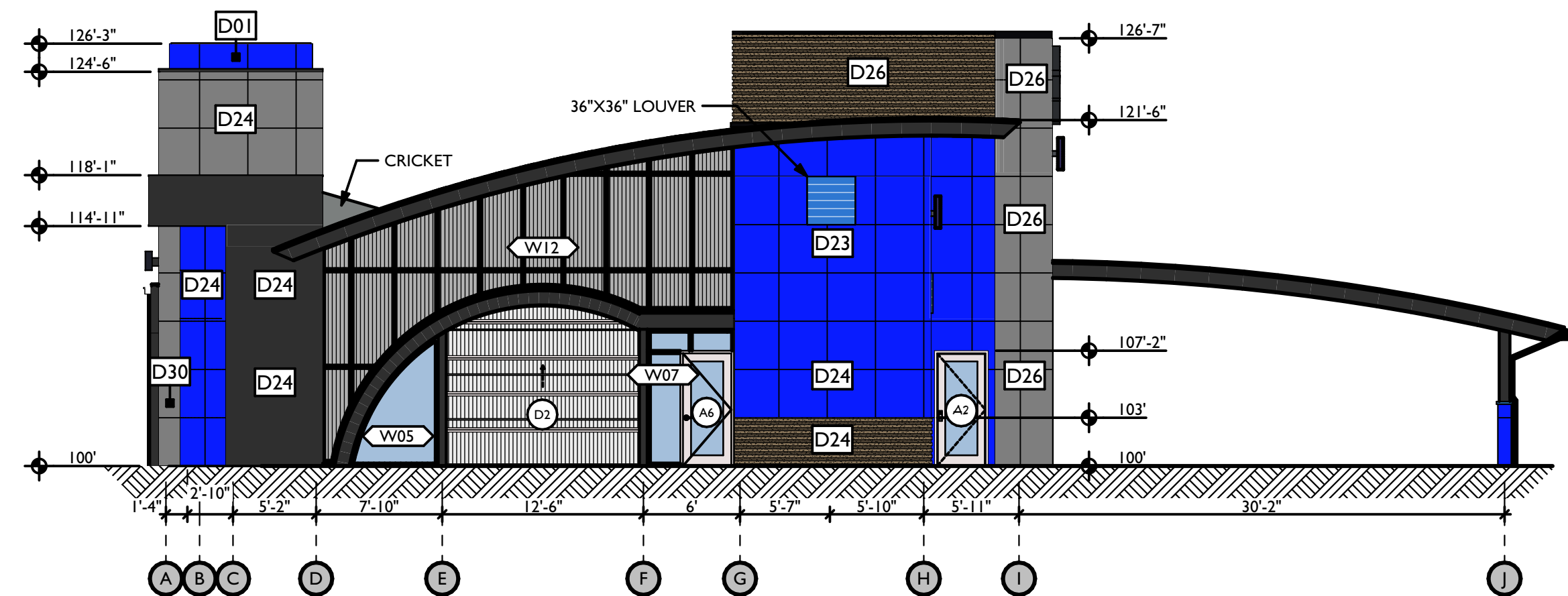
NOTE: ACM GRID SPACING IN ELEVATIONS IS GENERIC. SEE ACM LAYOUT FOR FINAL PANEL PLACEMENT & SPACING.



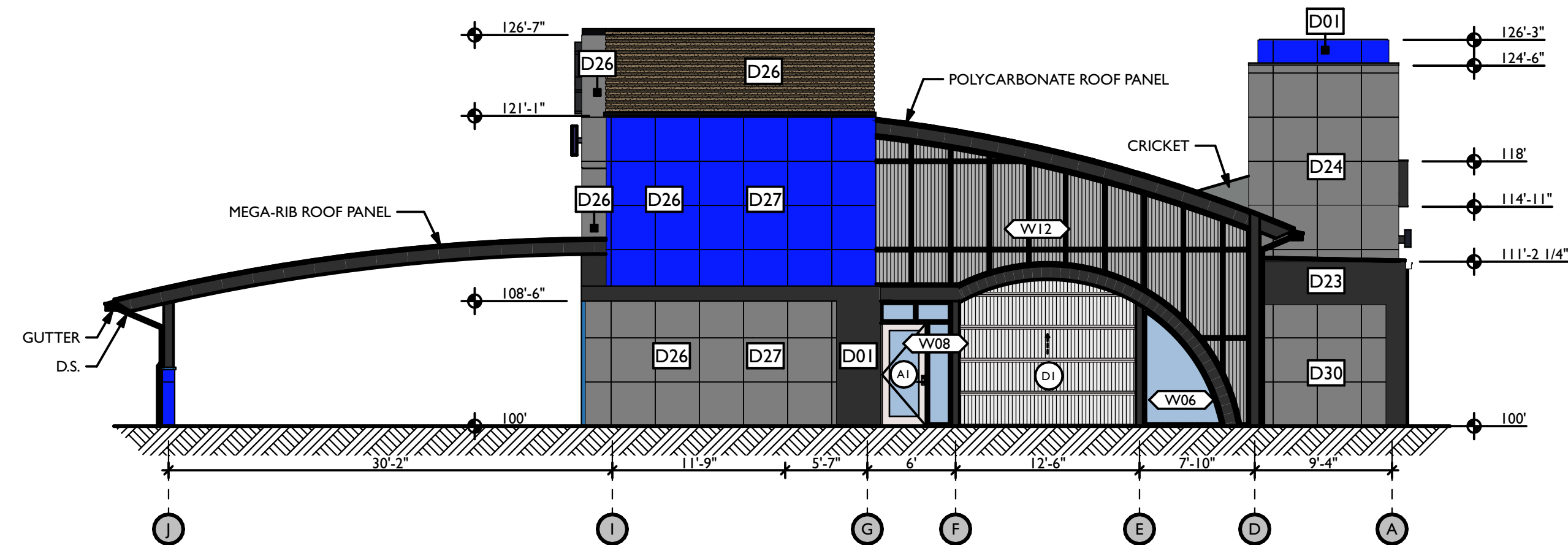
A ELEVATION - NORTH
SCALE: 1/8" = 1'-0"



G ELEVATION - SOUTH
SCALE: 1/8" = 1'-0"



K ELEVATION - WEST
SCALE: 1/8" = 1'-0"



M ELEVATION - EAST
SCALE: 1/8" = 1'-0"

REVISIONS	
ID	DESCRIPTION
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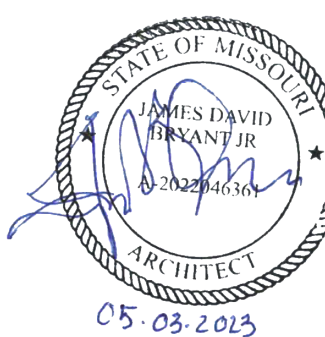
MODEL: AXIOM BETA
RETAIL TOWER
2023

15 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081

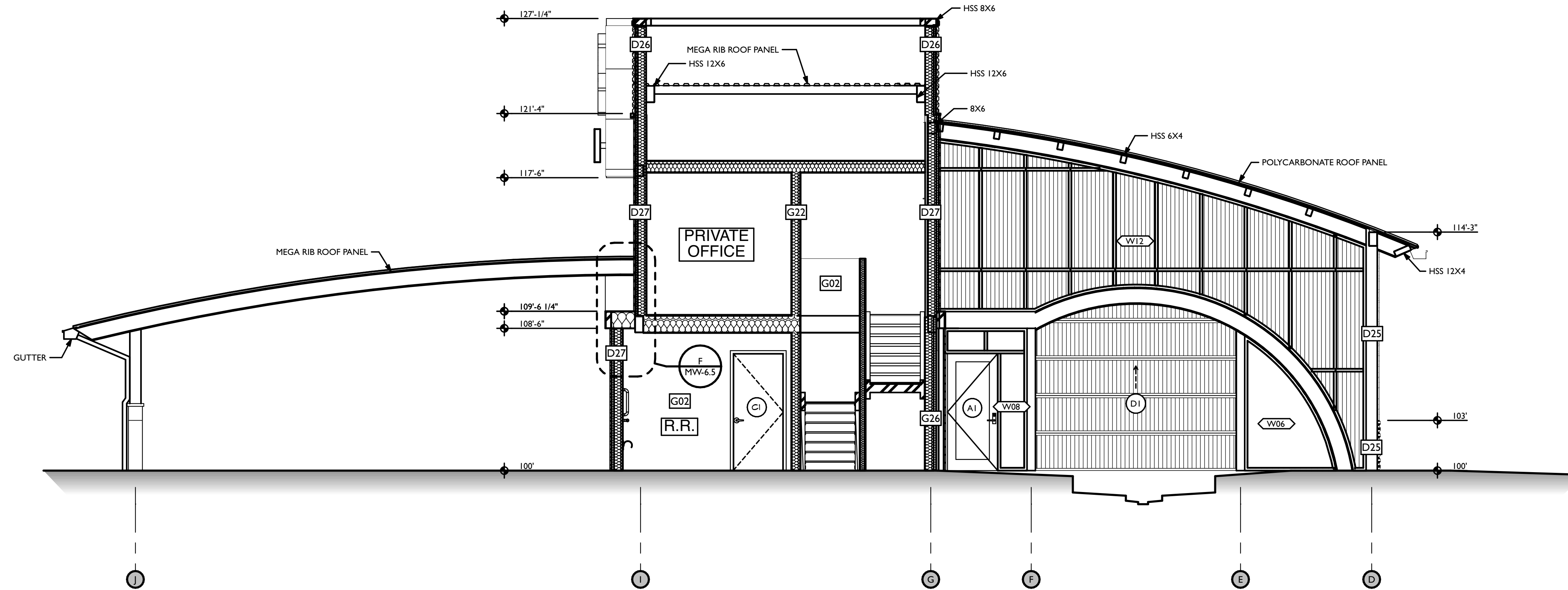


PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####

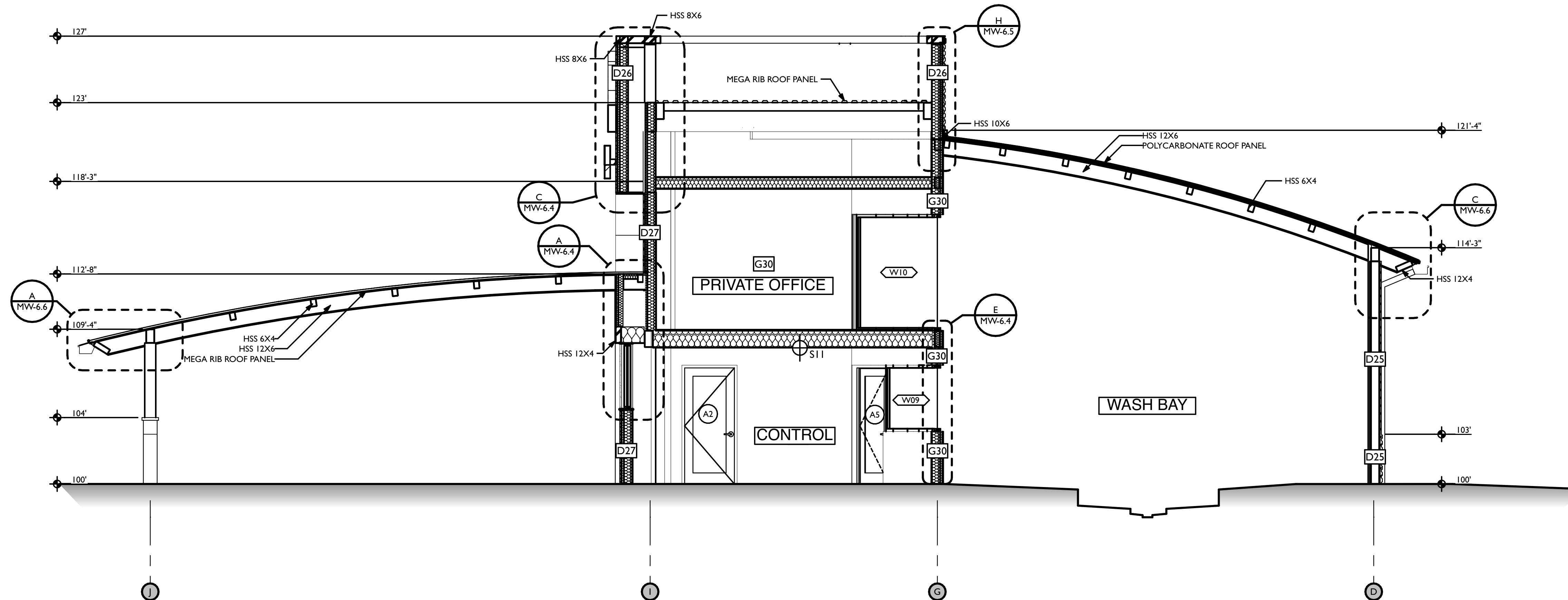
SHEET:

MW-4.1

ELEVATIONS



A SECTION - WASH BAY / CONTROL TOWER
SCALE: 1/4" = 1'-0"



K SECTION - WASH BAY / CONTROL TOWER
SCALE: 1/4" = 1'-0"

REVISIONS	
ID	DESCRIPTION
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5220 SCOTTSVILLE ROAD
BOWLING GREEN, KY 42104

MODEL: AXIOM BETA
RETAIL TOWER
2023

NEW CAR WASH FOR:
TUNNEL VISION CAR WASH
20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



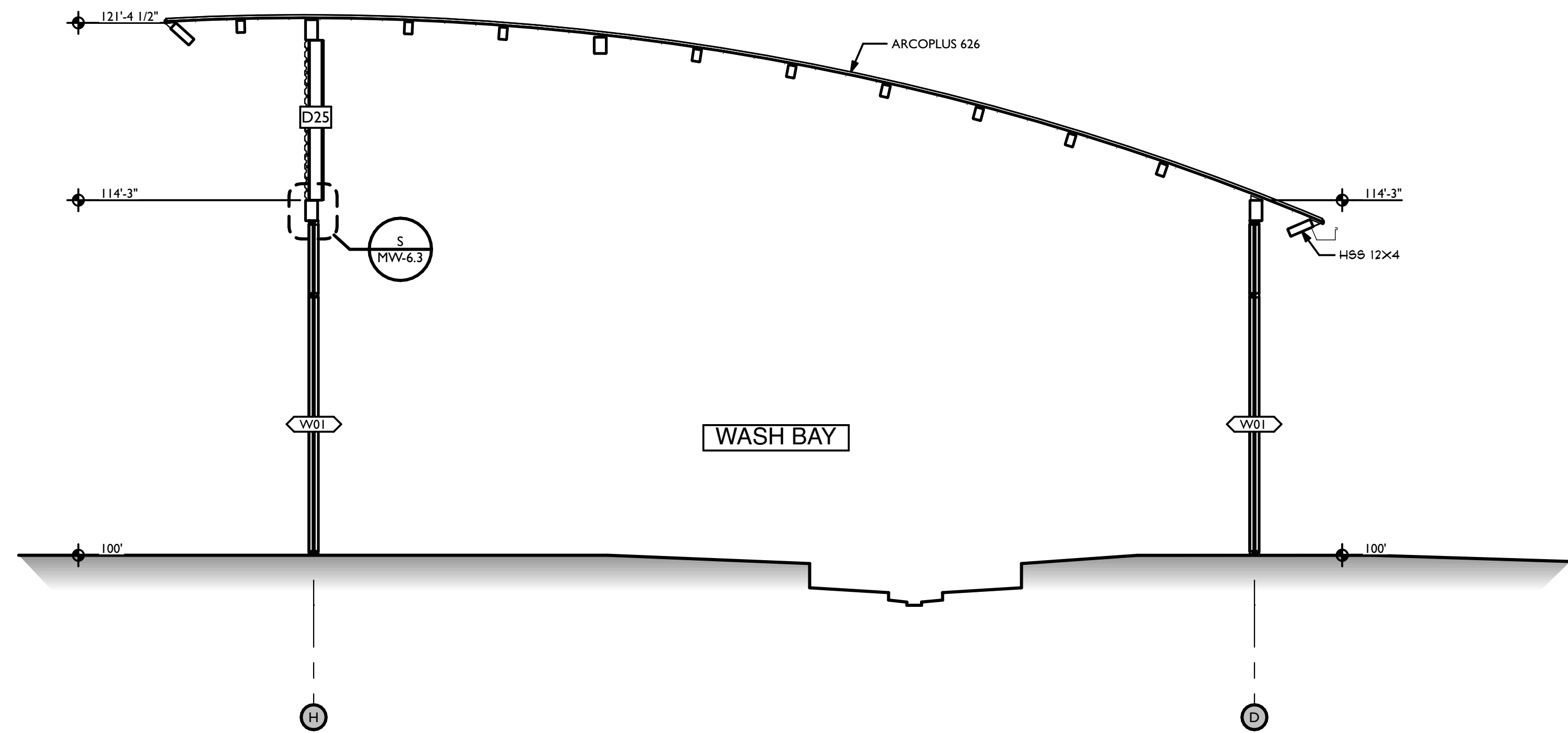
PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####

SHEET:

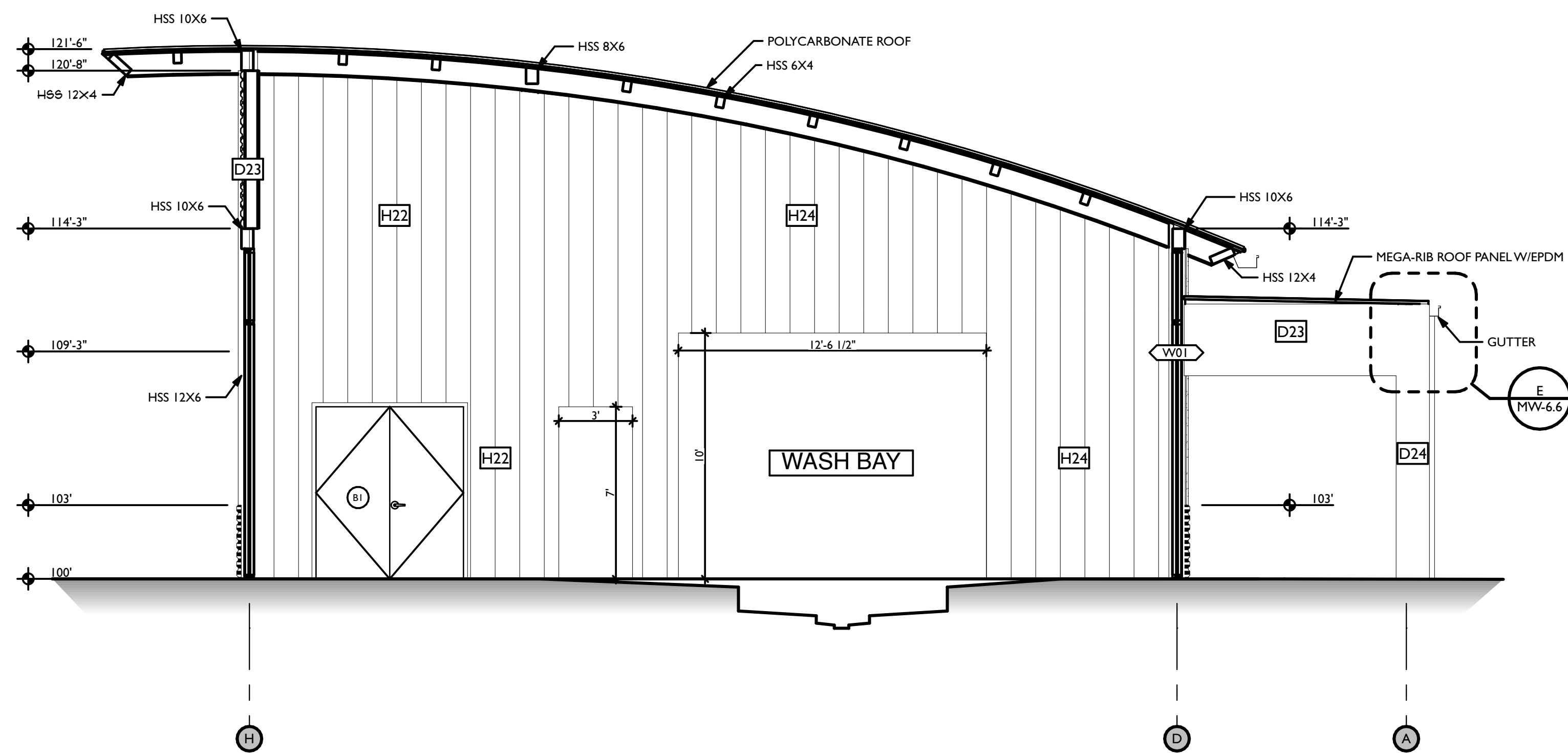
MV-5.1

SECTIONS

DATE OF CREATION: 09/09/21 MW JOB #: 2022-21



C SECTION - WASH BAY
SCALE: 1/4" = 1'-0"



M SECTION - WASH BAY FACING DIVISOR WALL
SCALE: 1/4" = 1'-0"

REVISIONS	
ID	DESCRIPTION
0	05/03/2023 FOR PERMIT

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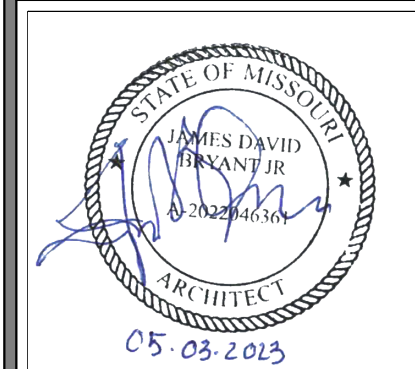
**MODEL: AXIOM BETA
RETAIL TOWER
2023**

17 OF 39

NEW CAR WASH FOR:

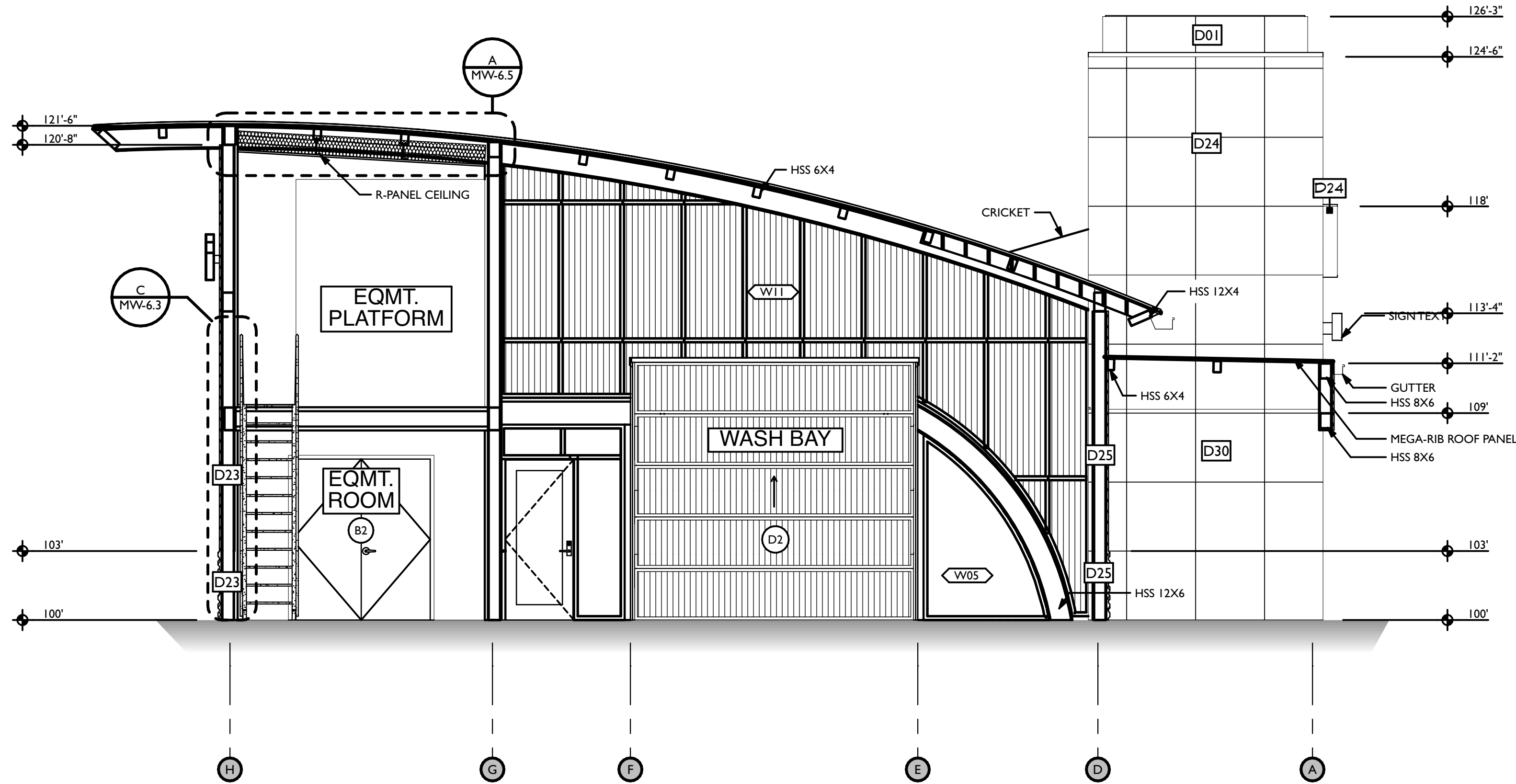
TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081

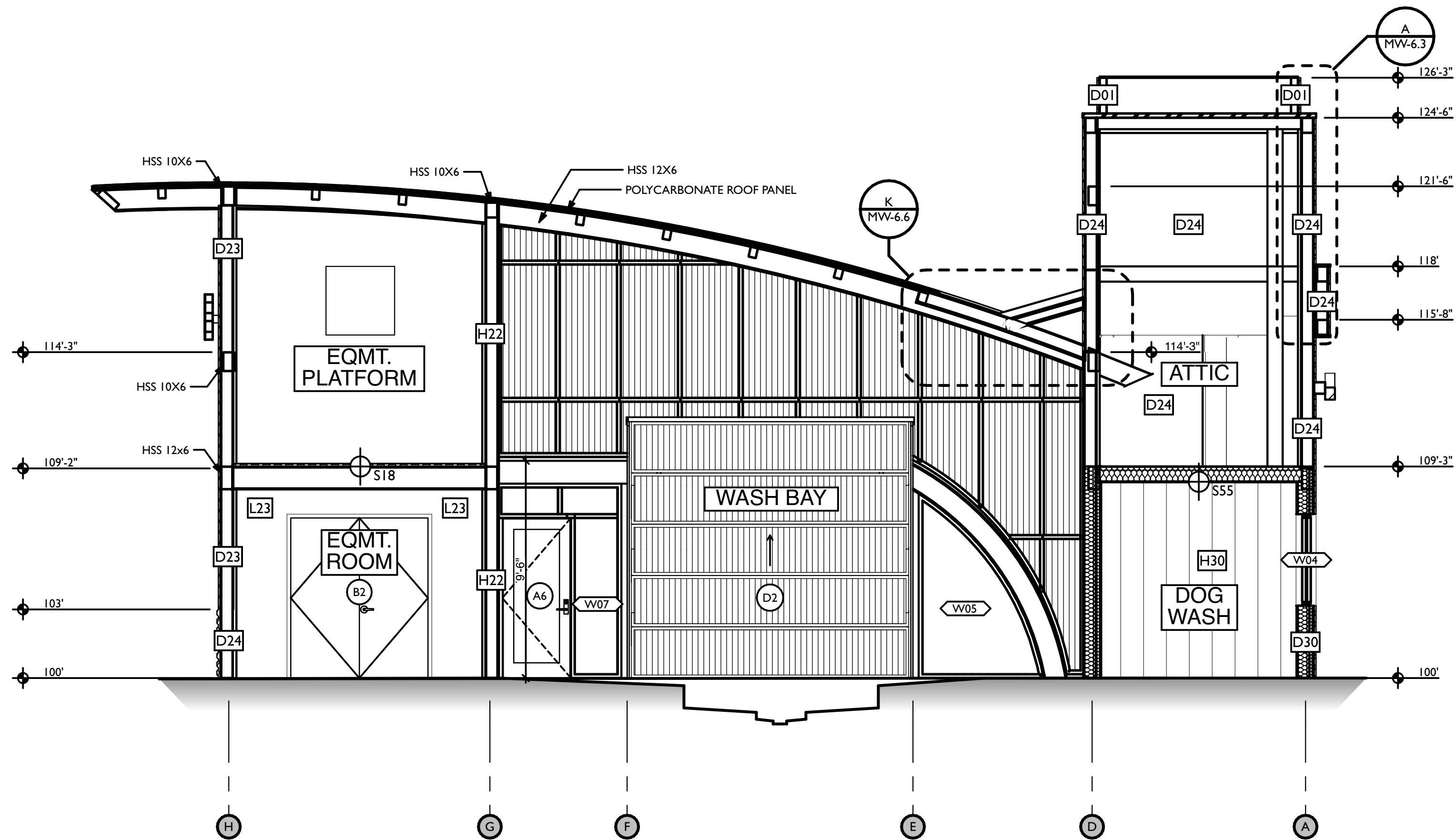


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PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####
SHEET: MW-5.2
SECTIONS



C SECTION - EQMT. ROOM / WASH BAY
SCALE: 1/4" = 1'-0"



H SECTION - EQMT. ROOM / WASH BAY / DOG WASH
SCALE: 1/4" = 1'-0"

REVISIONS	
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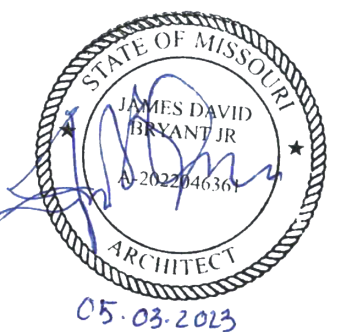
MODEL: AXIOM BETA
RETAIL TOWER
2023

18 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



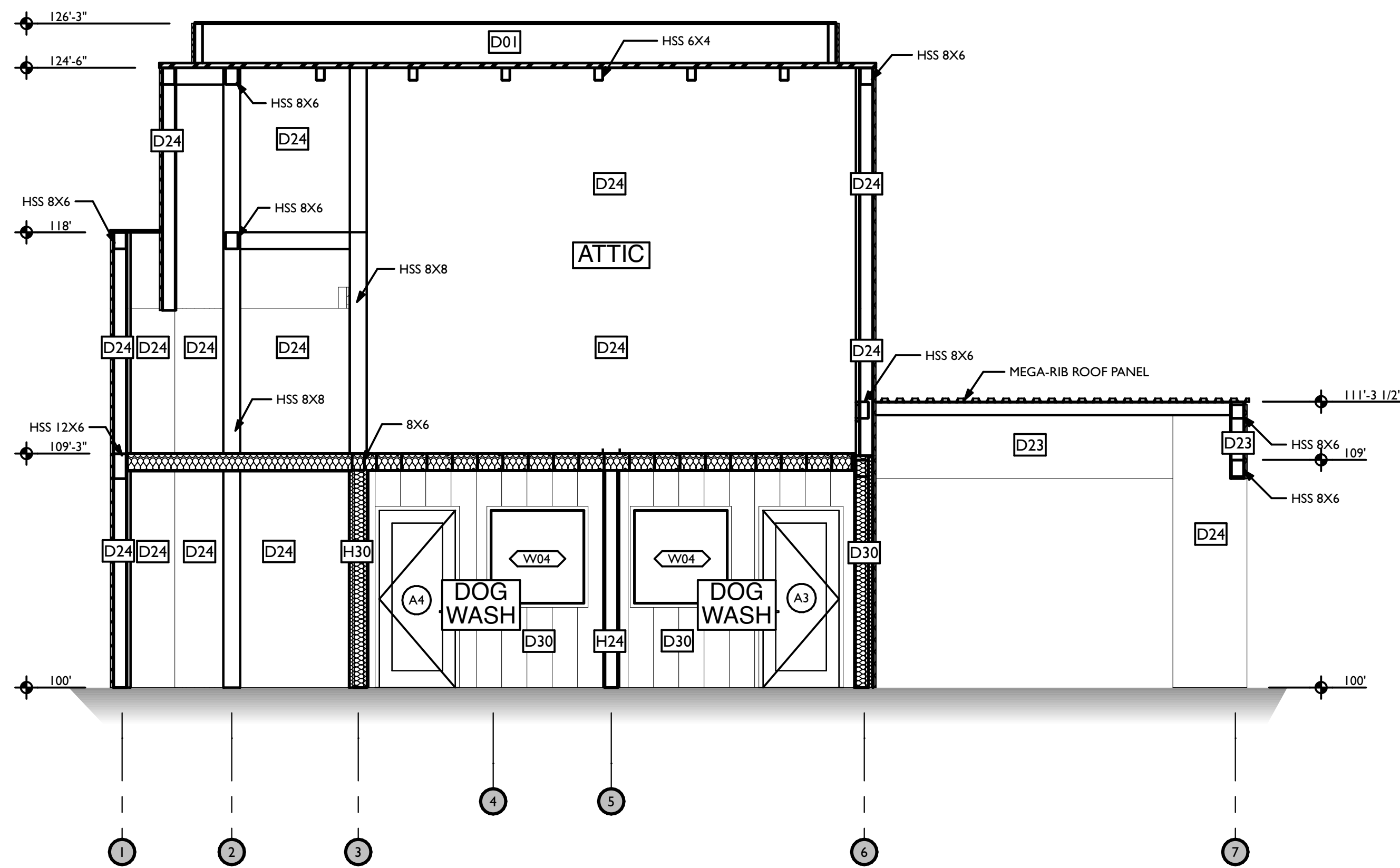
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PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####

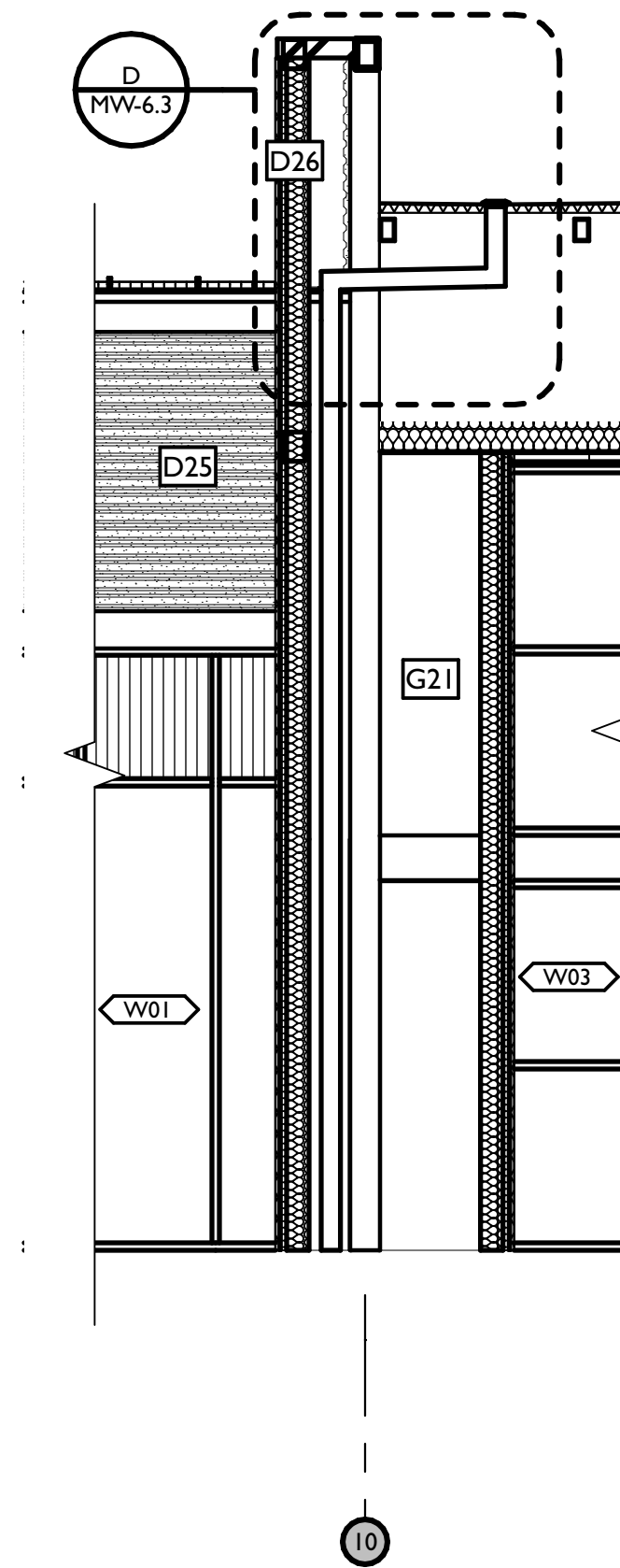
SHEET:

MV-5.3

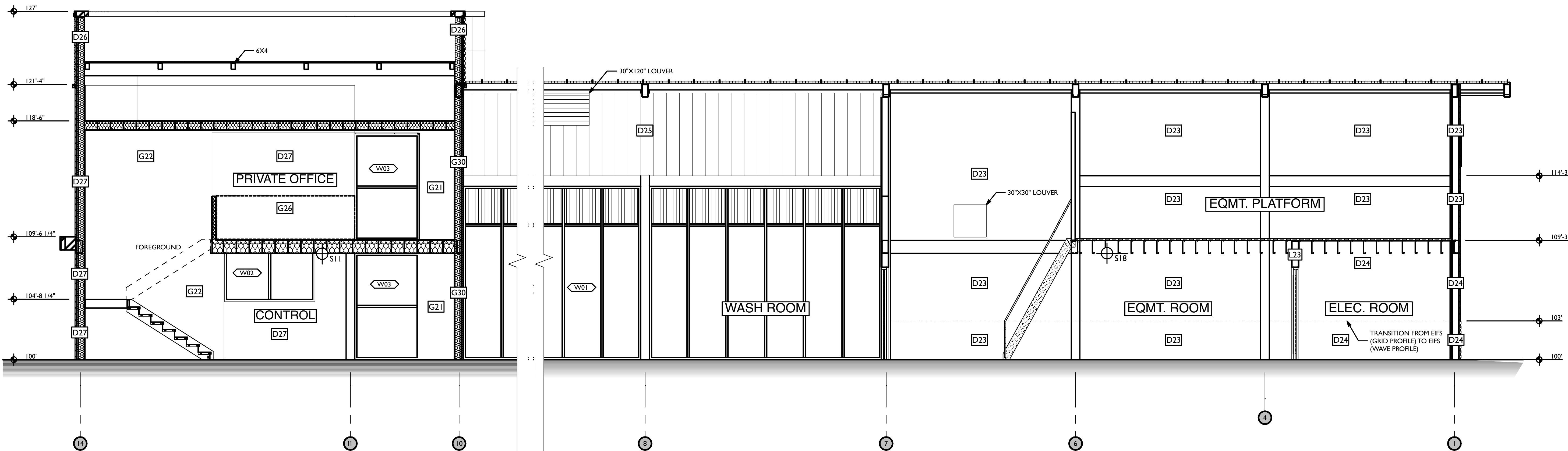
SECTIONS



A SECTION - CLOSET / DOG WASH
SCALE: 1/4" = 1'-0"



C SECTION DETAIL - STAIR TREAD
SCALE: 1/4" = 1'-0"



K SECTION - CTRL. ROOM / WASH BAY / EQMT. ROOM
SCALE: 1/4" = 1'-0"

REVISIONS		
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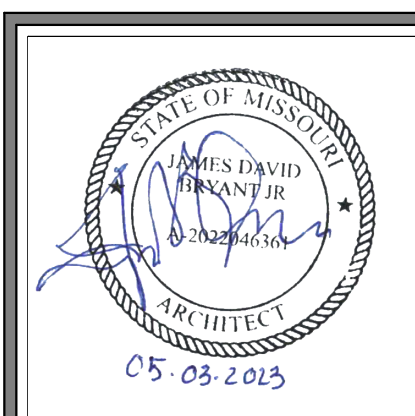
**MODEL: AXIOM BETA
RETAIL TOWER
2023**

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NEW CAR WASH FOR:

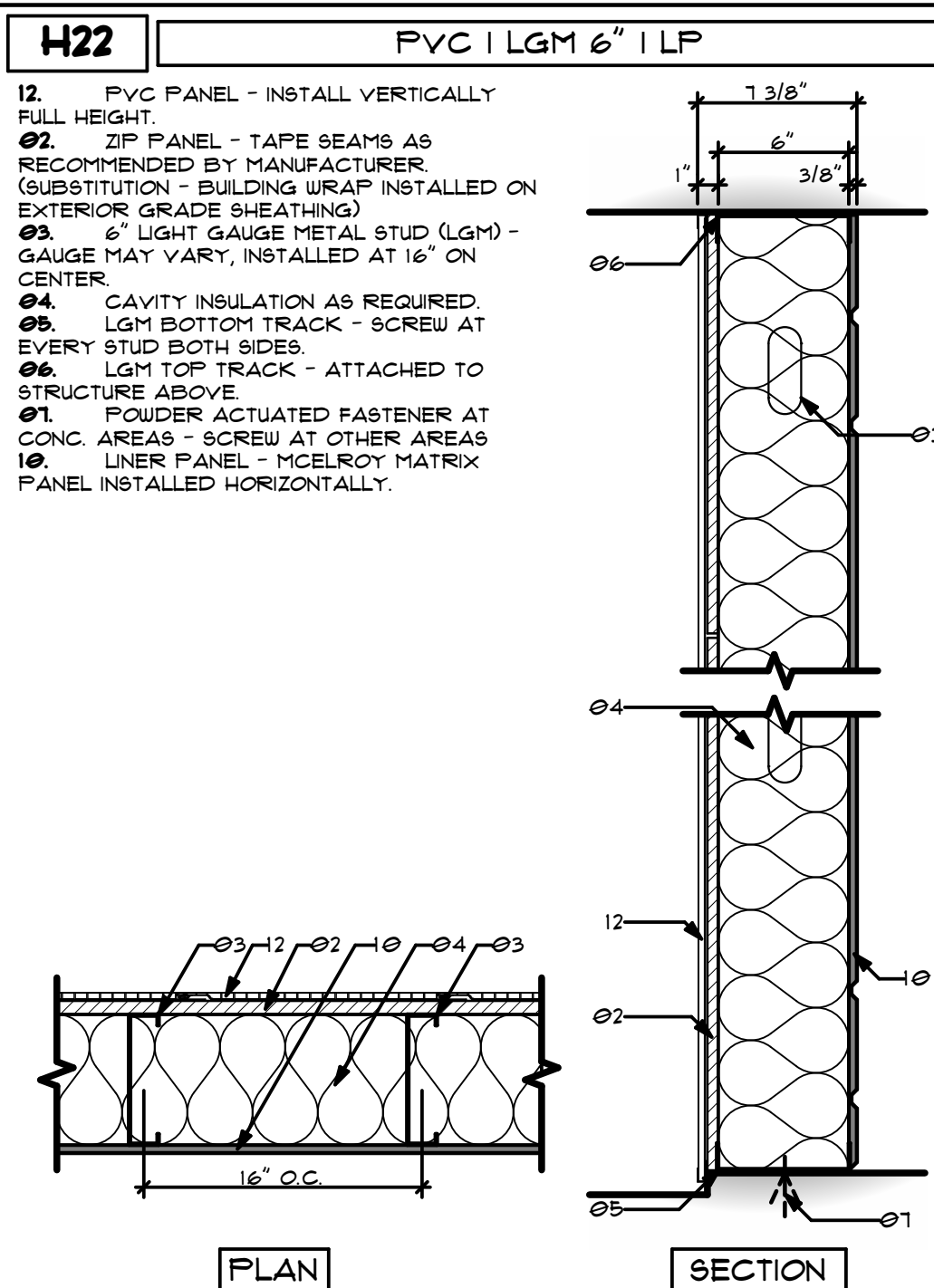
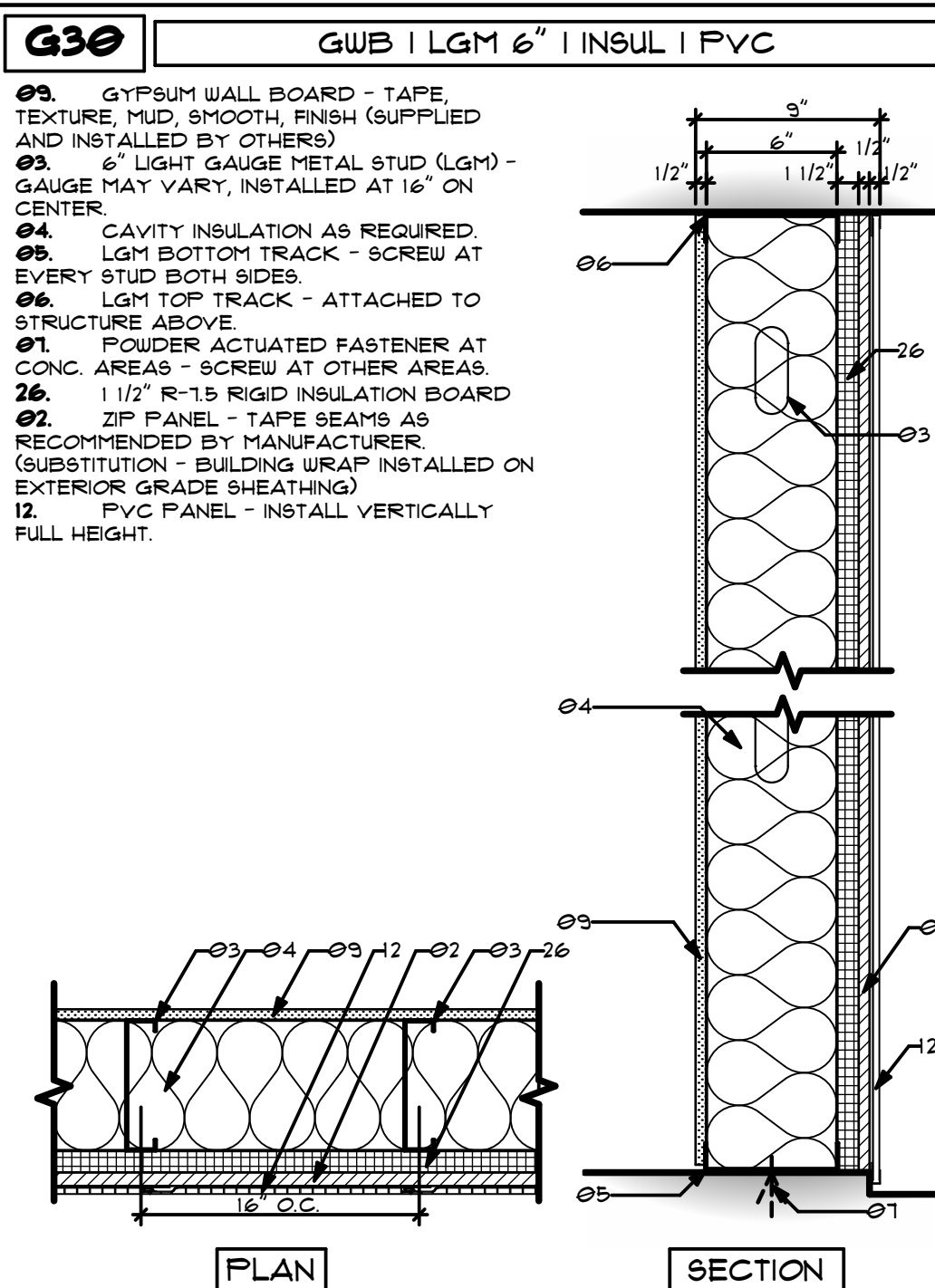
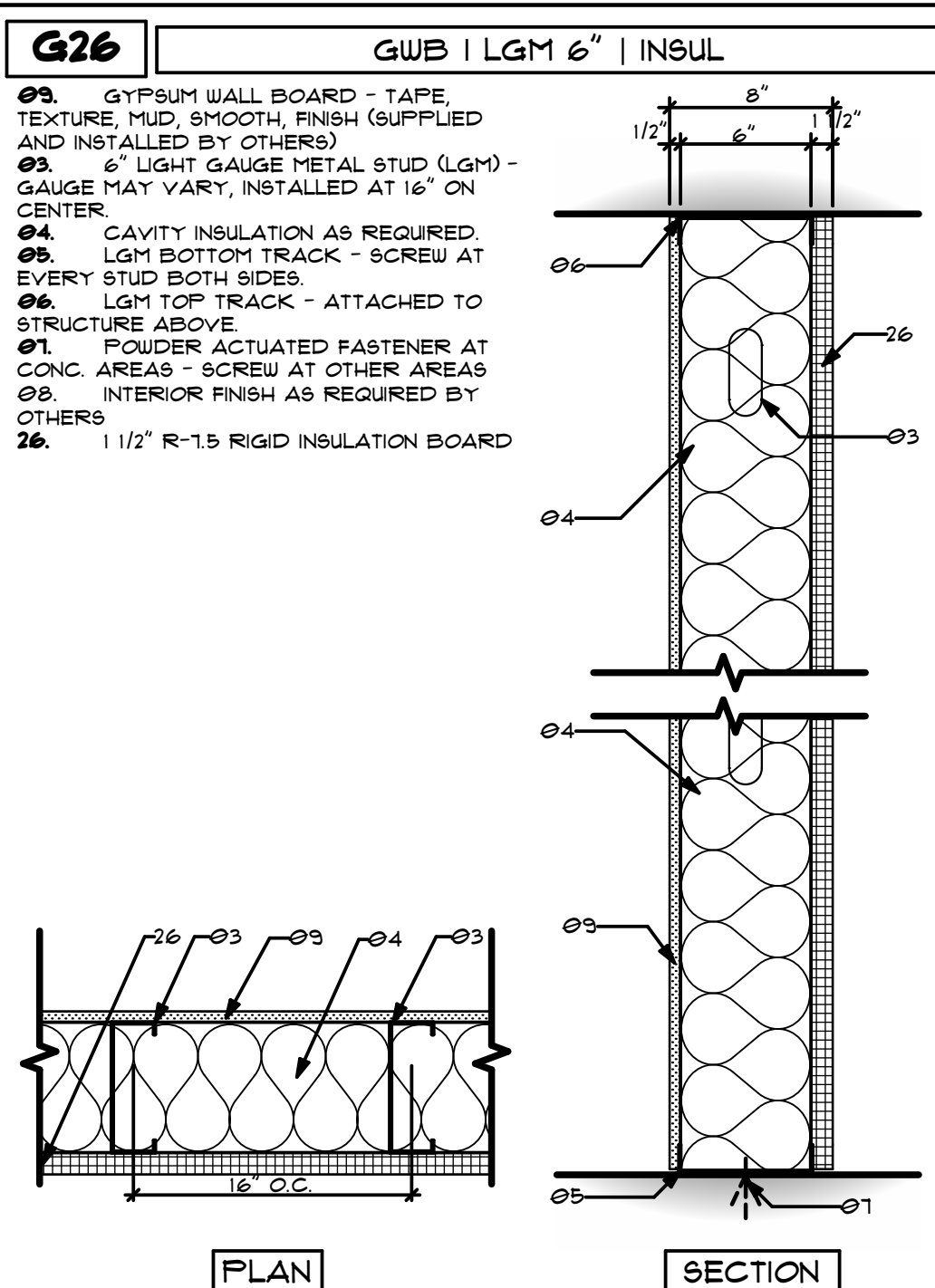
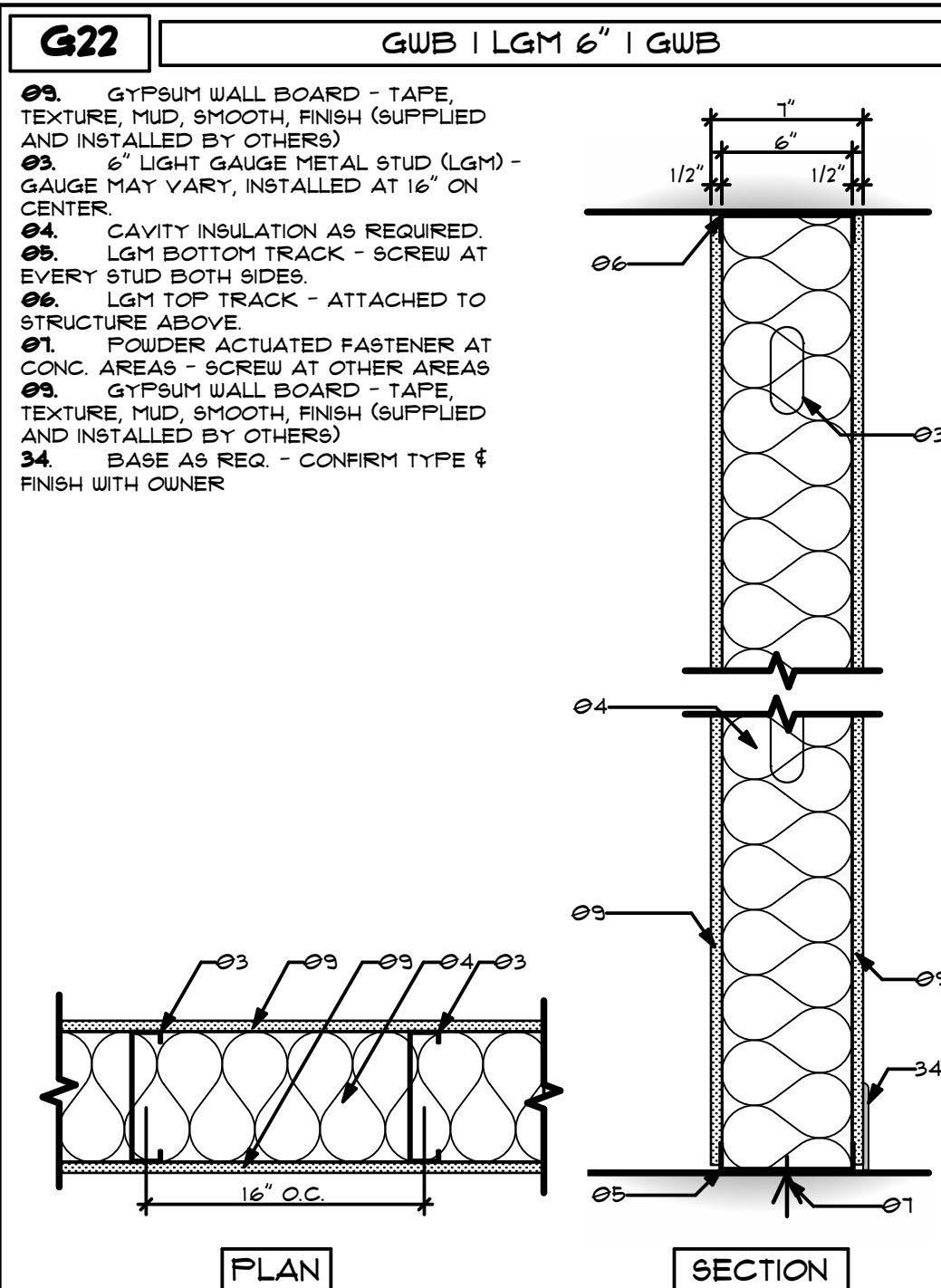
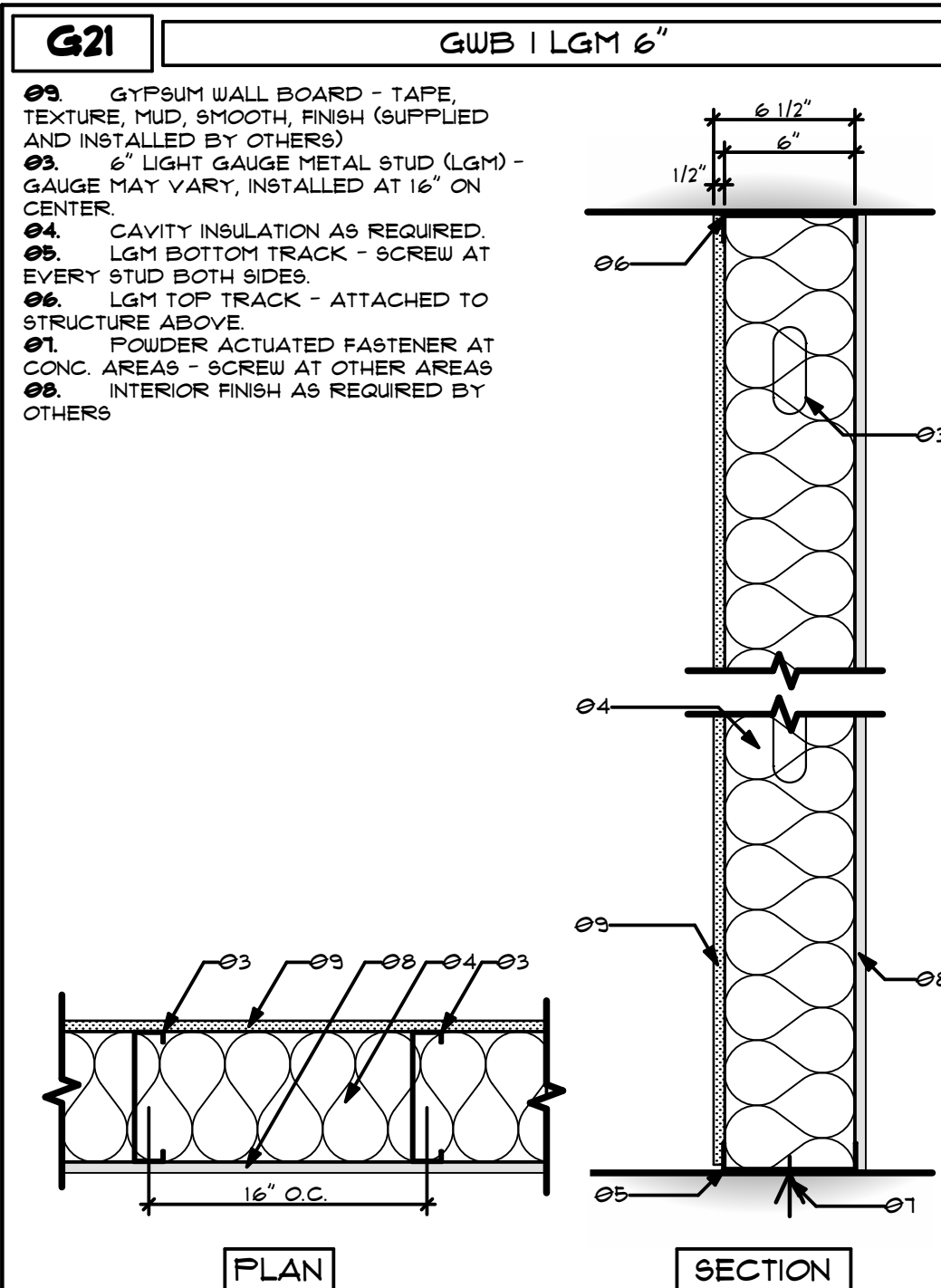
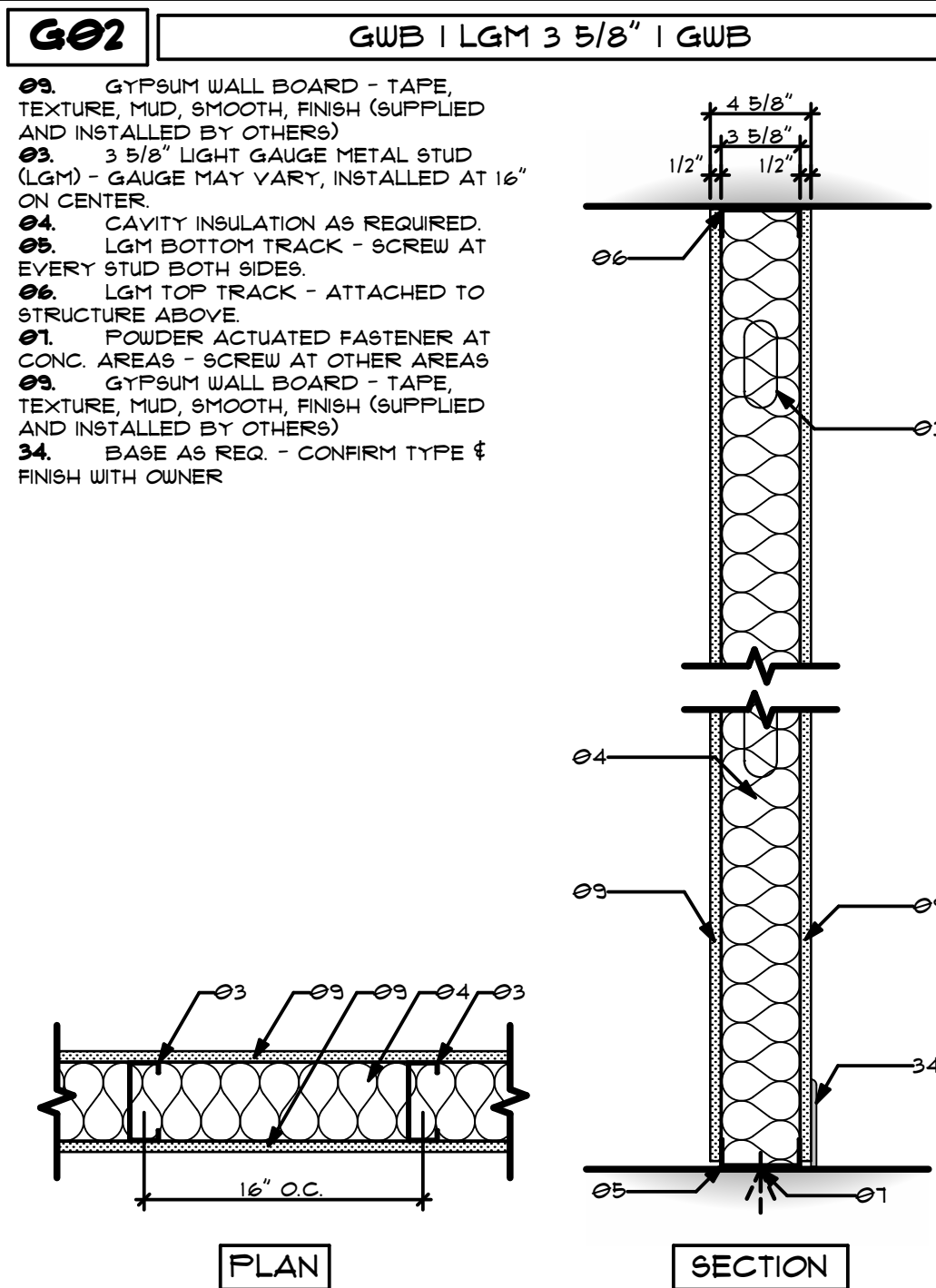
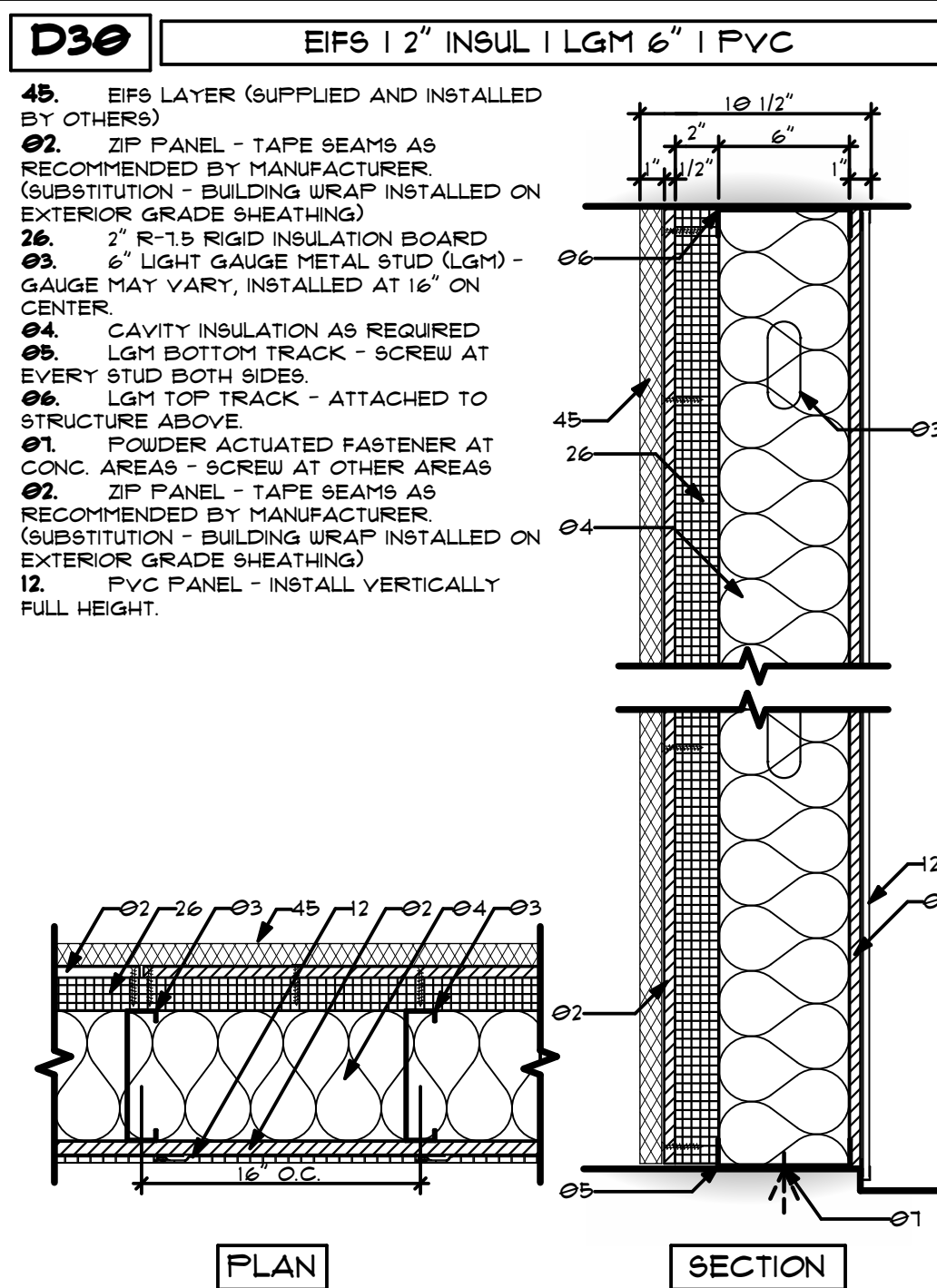
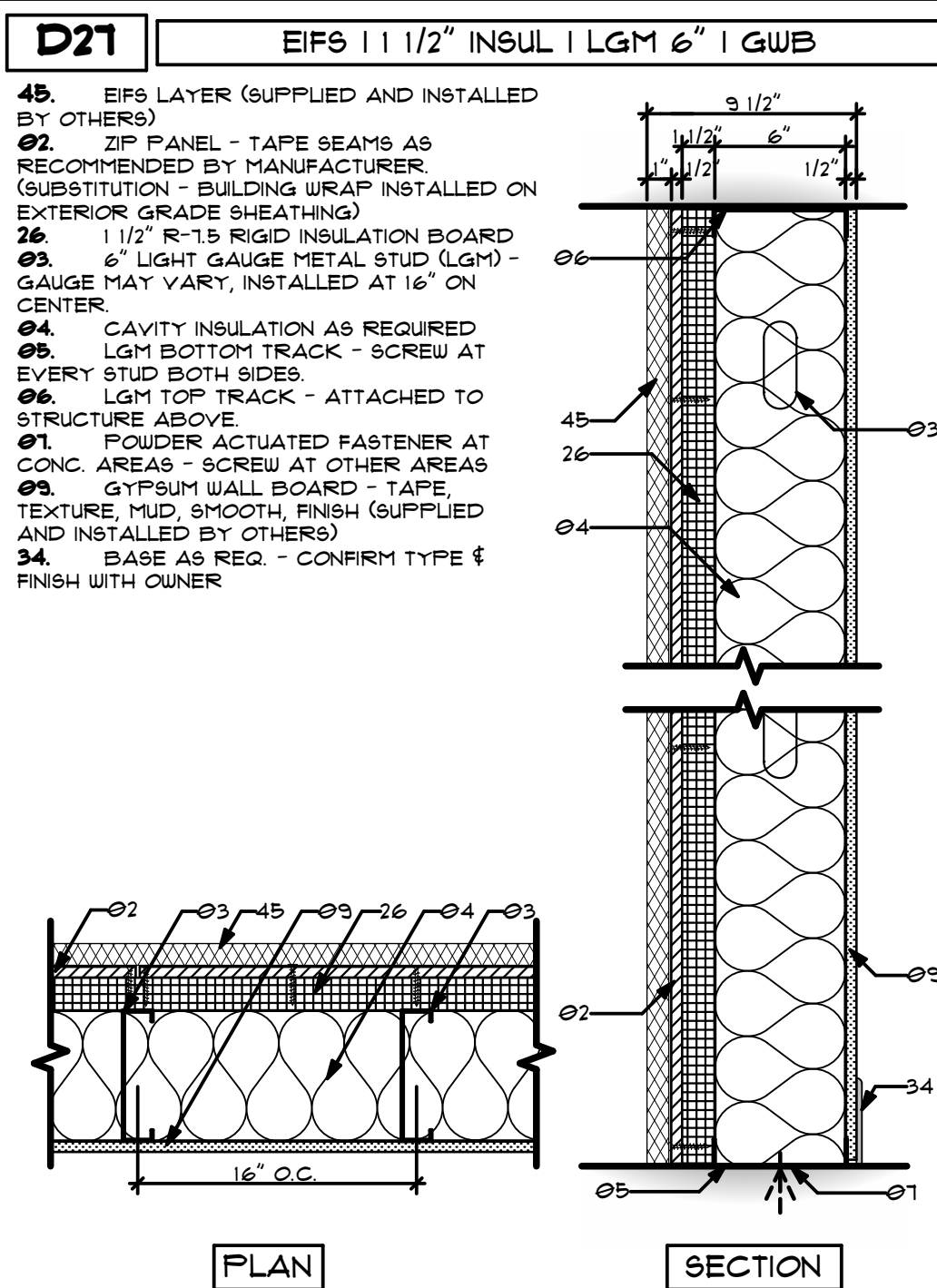
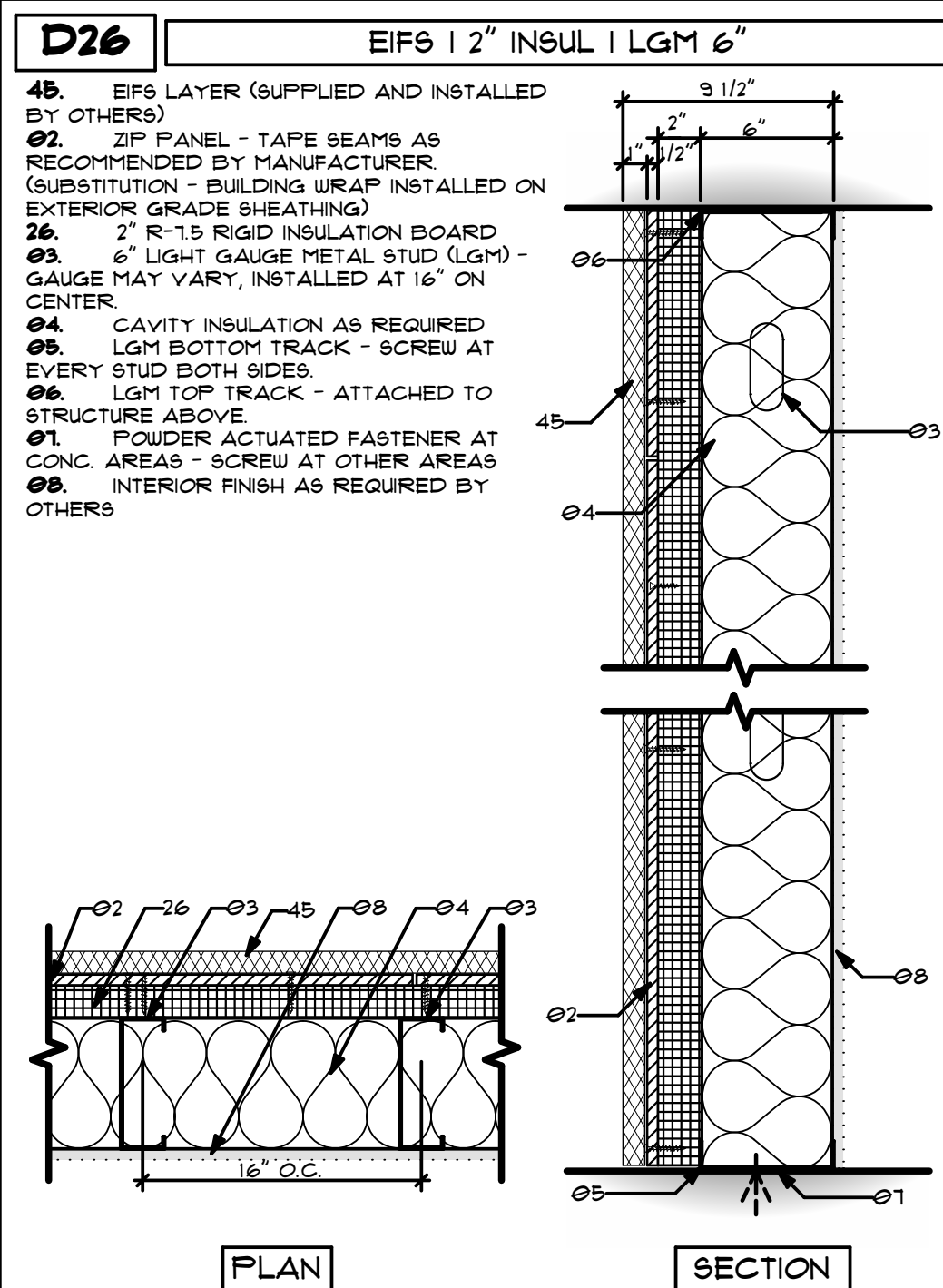
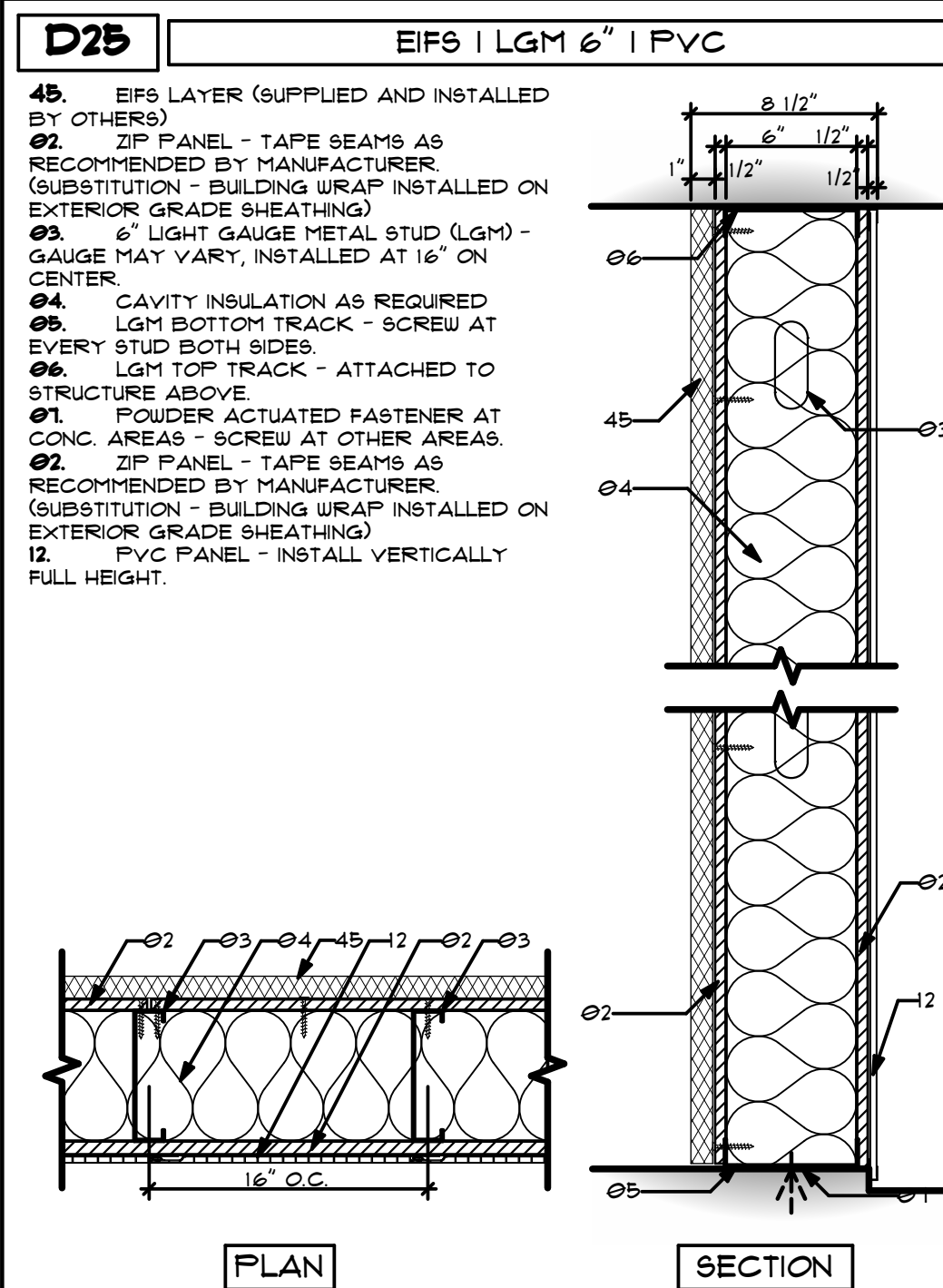
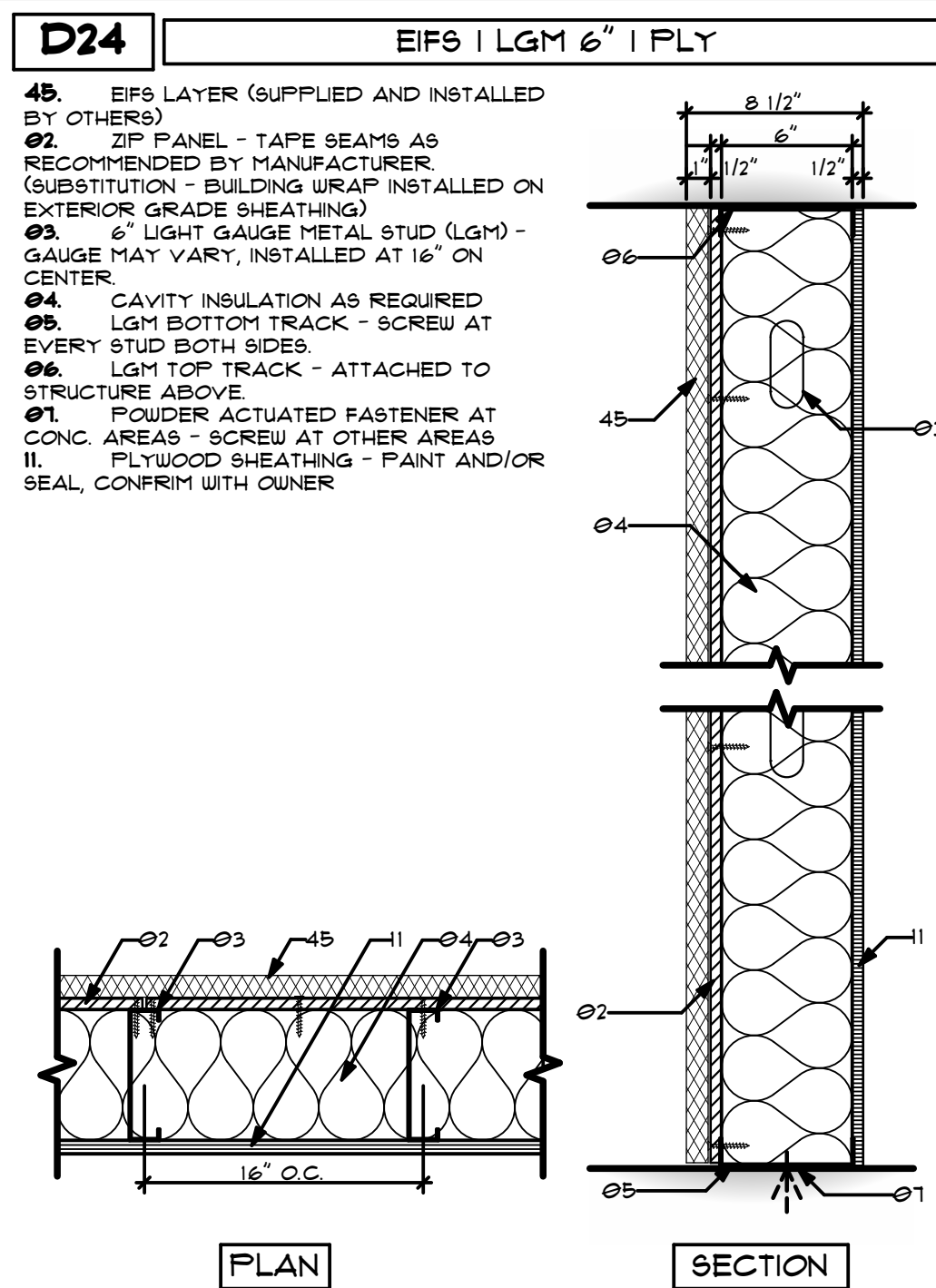
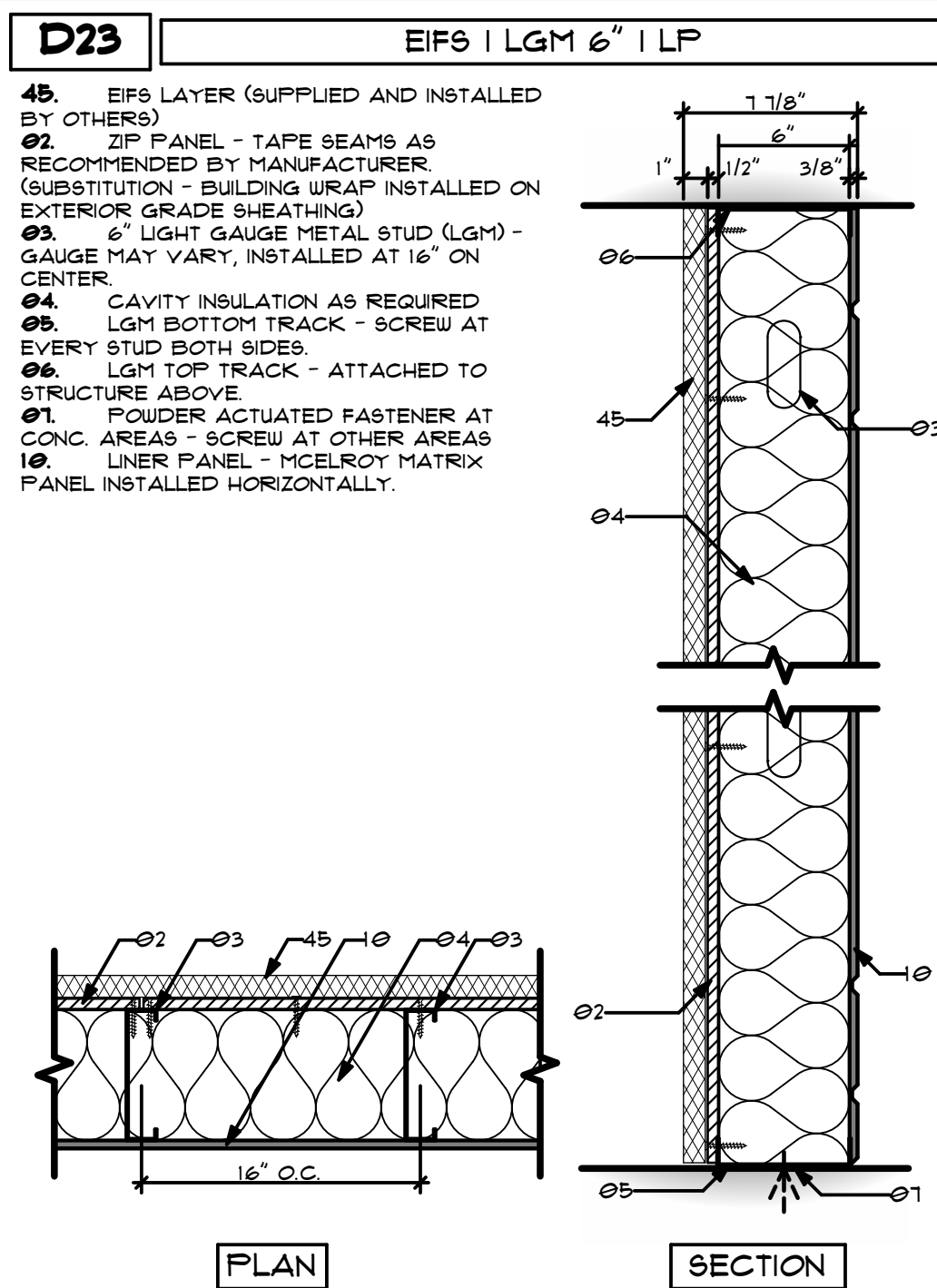
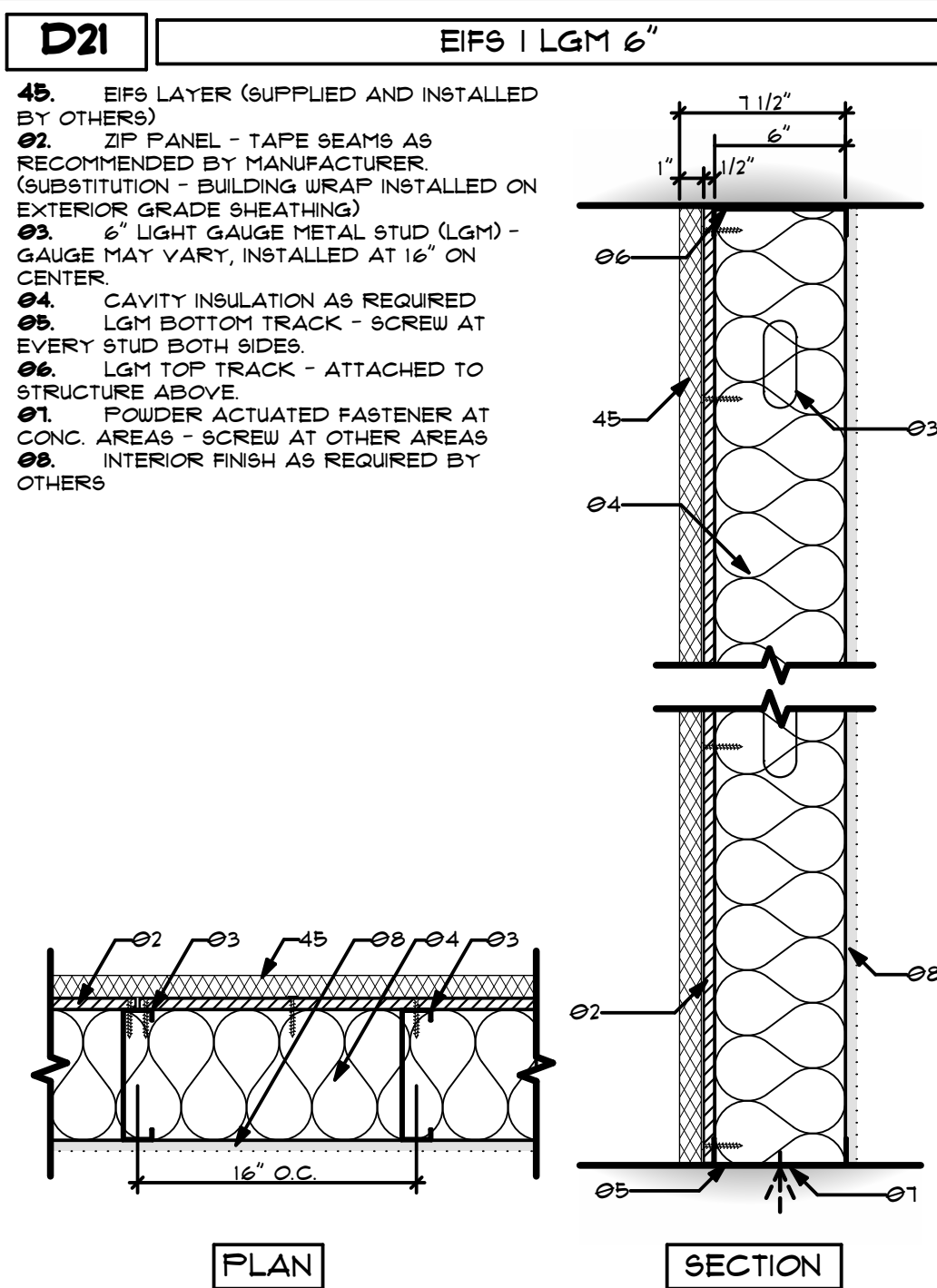
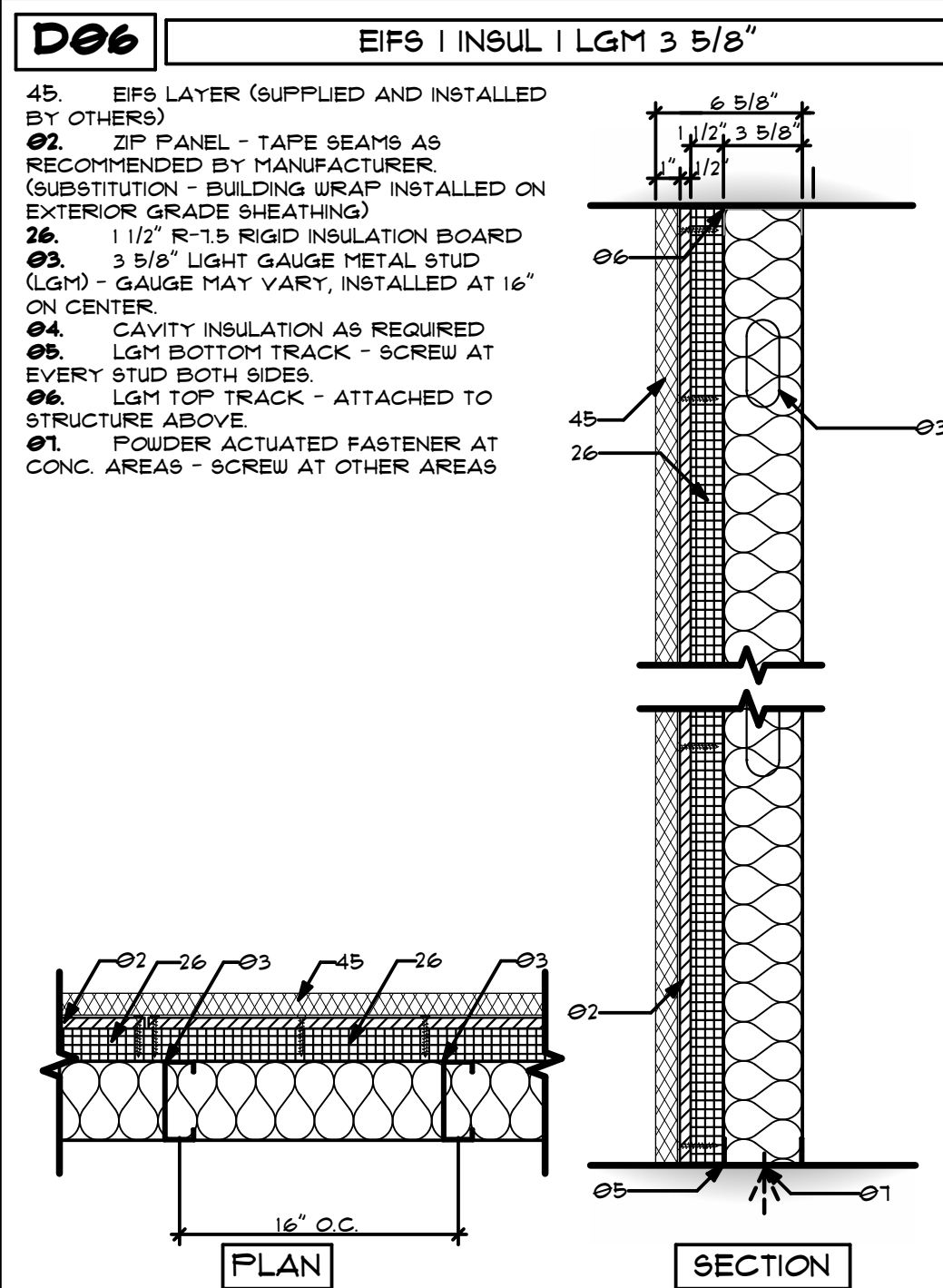
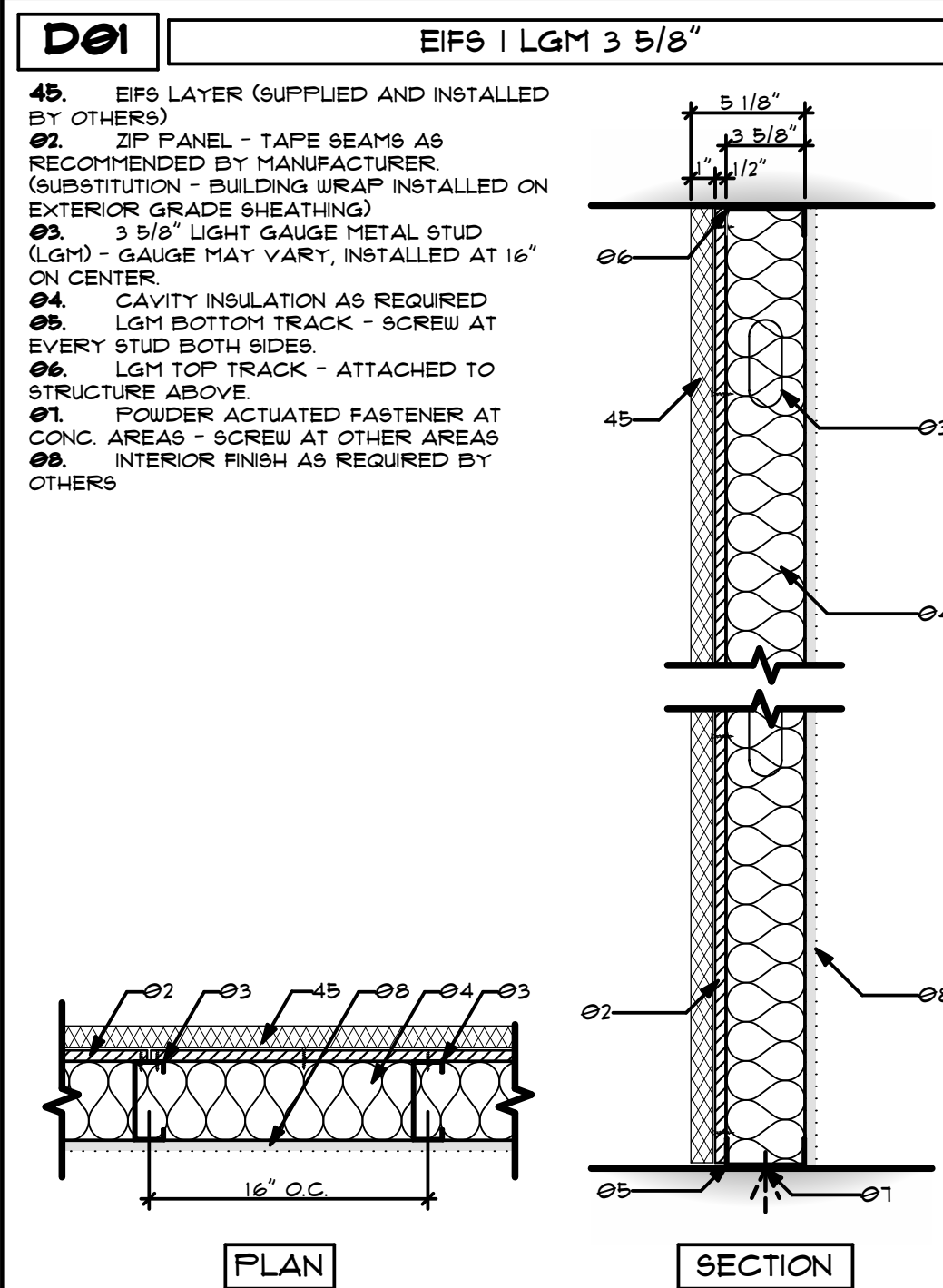
TUNNEL VISION CAR WASH

20 SETHOMPSON DR
LEE'S SUMMIT, MO 64081



USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.

PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####
SHEET: MW-5.4
SECTIONS



WALL/FLOOR TYPES GENERAL NOTES:

ERECTION AND INSTALLATION BY OTHERS

NOT ALL NOTES LISTED BELOW APPLY TO EVERY PROJECT.

- NOT ALL WALL TYPES SHOWN MAY BE USED IN THIS PROJECT. CONFIRM TYPE WITH WALL TYPE SYMBOLS ON PLANS AND SECTIONS.
- ALL FULL HEIGHT LIGHT GAUGE METAL STUD FRAMING SHALL BE BRACED TO THE ROOF STRUCTURE AND SHALL NOT BE FASTENED IN ANY WAY TO THE ROOF PANELS OR DECK.
- SEE FLOOR PLAN AND SECTION WALL TYPE SYMBOLS FOR WALL LOCATIONS, HEIGHTS, AND ADDITIONAL INFORMATION.
- TRACK GAUGE TO MATCH STUD GAUGE.
- IF REQUIRED AND/OR INSTALLED, INSULATION IS TO BE CONTINUOUS FROM FLOOR TO DECK/CEILING ABOVE.
- FRAMING CONTRACTOR SHALL PROVIDE SOLID BLOCKING CONCEALED IN WALLS AND ROUGH OPENINGS, AS REQUIRED, FOR MILLWORK, SUPPORT, GRAB BARS, CLOSET SHELVING/RODS, TOILET ACCESSORIES, ETC.
- IF SUSPENDED CEILING IS USED, ALL NON-FULL HEIGHT INTERIOR PARTITIONS ARE TO BE BRACED TO CEILING/FLOOR OR ROOF STRUCTURE ABOVE.
- ALL SHEATHING/SUBSTRATE IS TO BE INSTALLED BASED ON THE MANUFACTURERS RECOMMENDATIONS. CONFIRM EDGE SPACING WITH MANUFACTURERS SPECIFICATIONS.
- 1/2" ZIP PANEL IS SHOWN AS SHEATHING ON ALL WALL TYPES AS REQUIRED. THICKNESS AND TYPE OF SHEATHING MAY BE SUBSTITUTED BASED ON LOCAL BUILDING CODES (CONFORM WITH ARCHITECT PRIOR TO MODIFICATION).
- IF PLYWOOD OR ZIP SHEATHING IS SUBSTITUTED WITH ANOTHER SHEATHING PRODUCT, THEN THE CONTRACTOR IS RESPONSIBLE FOR THE POSSIBLE CHANGE OR MODIFICATION OF THE FINISH MATERIAL ATTACHMENT TO THE SUBSTRATE.
- ZIP PANELS CONTAIN A BUILT-IN VAPOR BARRIER. INSTALL, TAPE, AND SEAL BASED ON MANUFACTURERS INSTALLATION GUIDE AND SPECIFICATIONS.
- EXTEND PVC PANEL DOWN FAST EDGE OF SLAB. 1" OR MORE RECOMMENDED. 4" MAX.
- UNLESS OTHERWISE NOTED, ALL LGM WALL STUDS ARE TO BE 18 GA.
- UNLESS OTHERWISE NOTED, ALL LGM FLOOR/CEILING JOISTS ARE TO BE 12 GA.
- UNLESS OTHERWISE NOTED, ALL 12" FLOOR JOISTS ARE TO BE ATTACHED TO STEEL FRAME STRUCTURE USING SIMPSON JOIST HANGERS AND/OR BEAR ON A STRUCTURAL WALL.
- UNLESS OTHERWISE NOTED OR DETAILED, ALL CEILING STRUCTURES ARE TO BE ATTACHED TO THE WALL STRUCTURE BY LIGHT TRACK AND THE AREA ABOVE IS NOT INTENDED FOR STORAGE OR OCCUPIED SPACE.

REVISIONS

DATE

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DESCRIPTION

FOR PERMIT

05/03/2023

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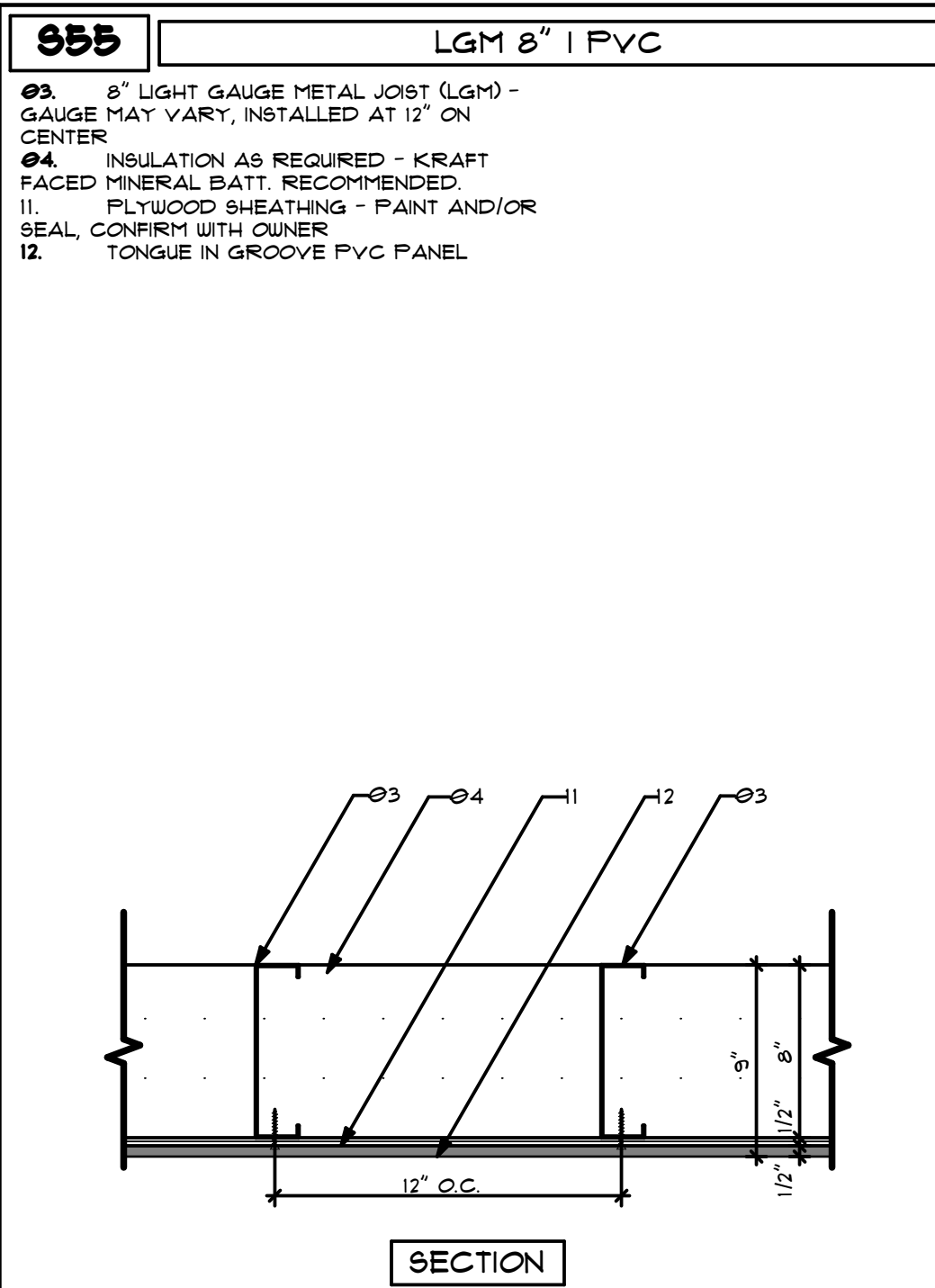
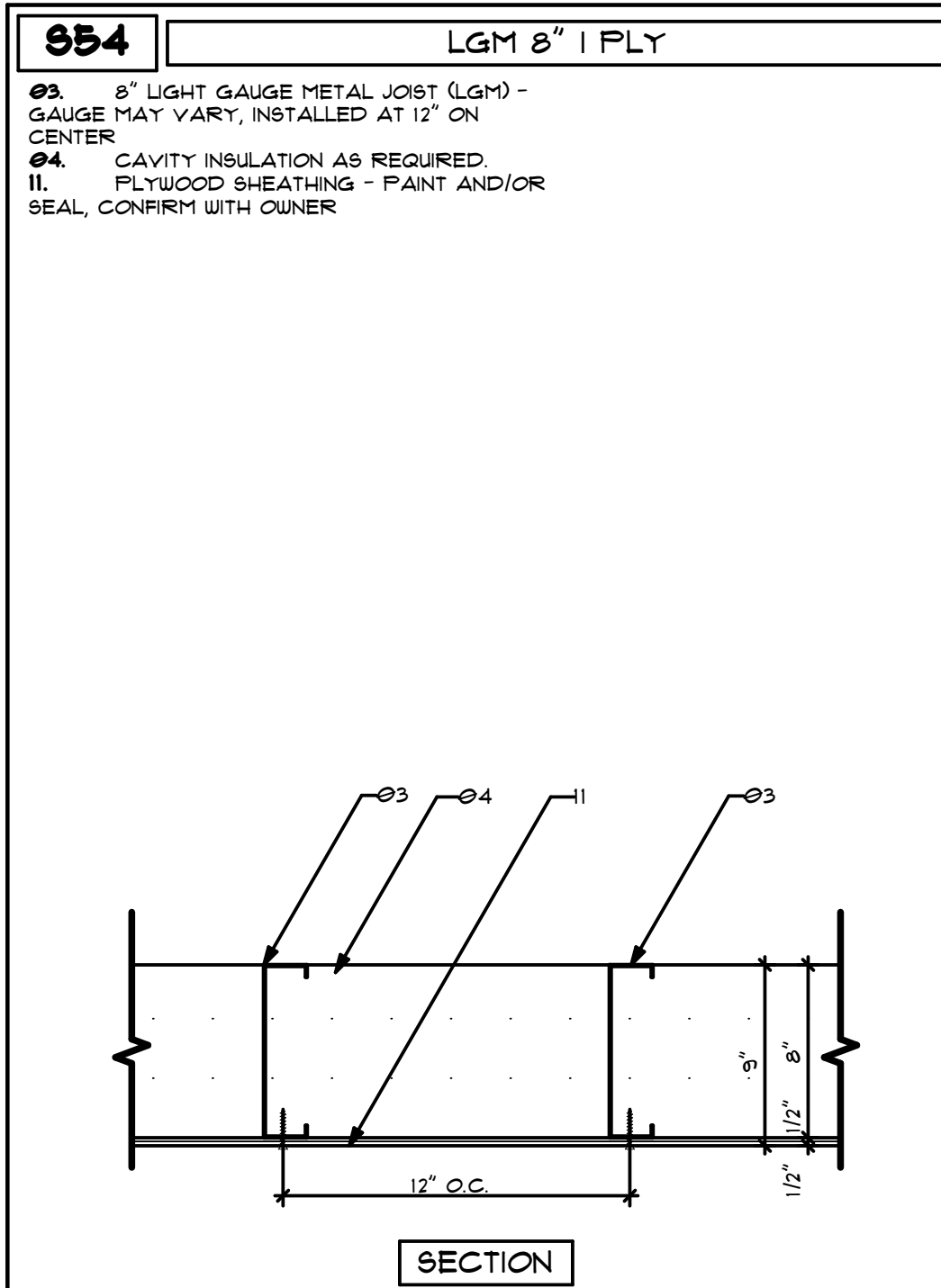
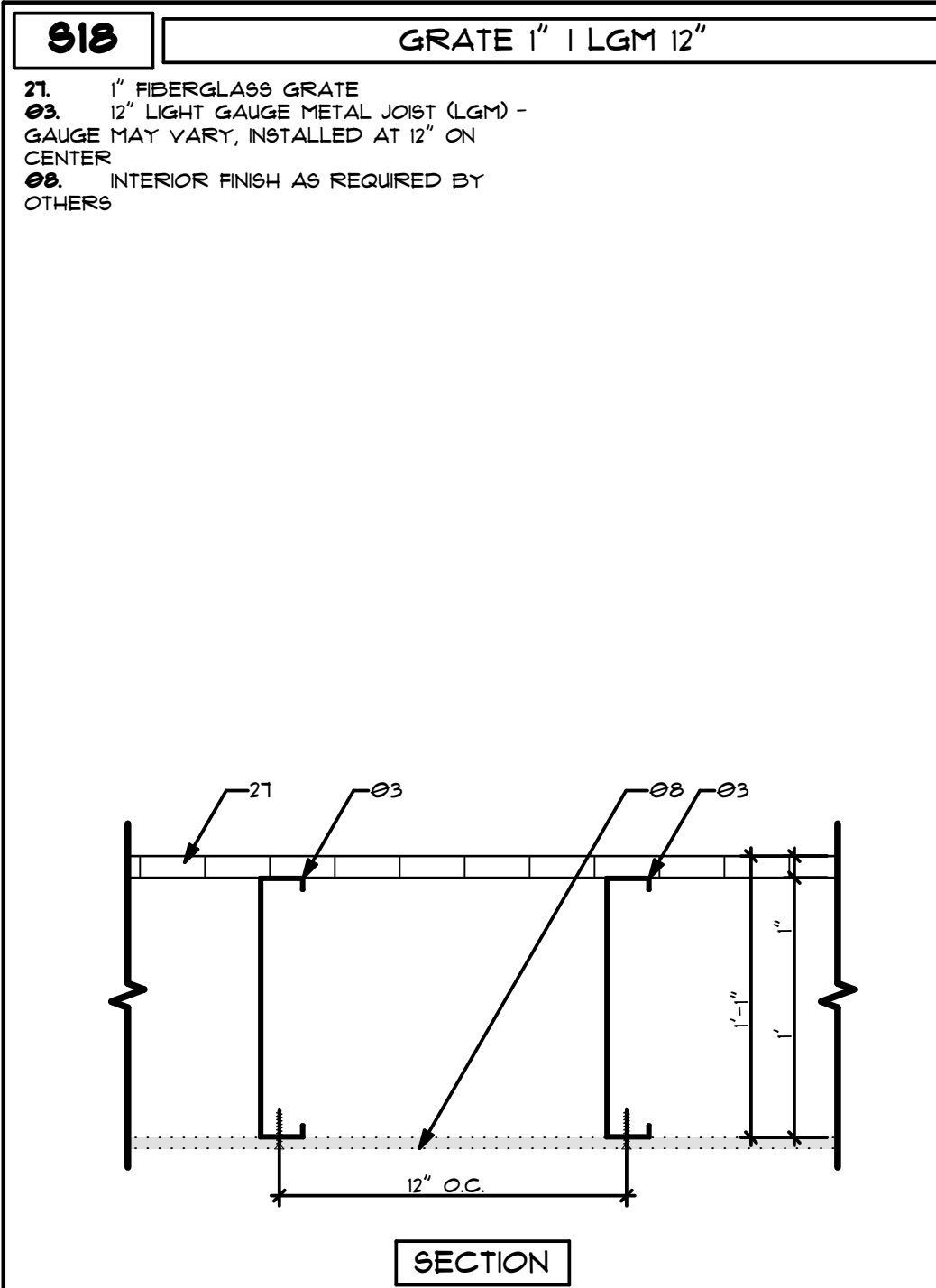
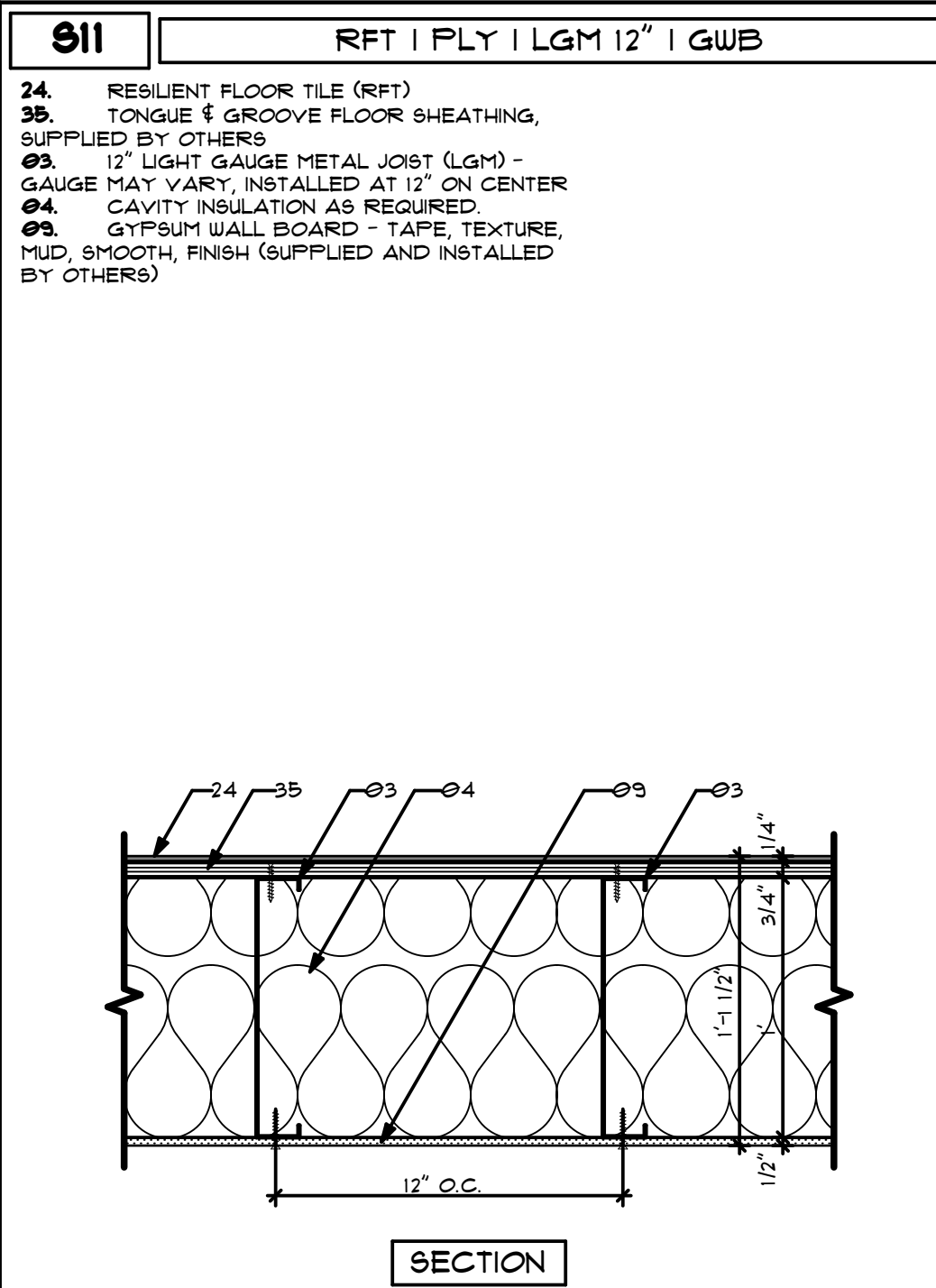
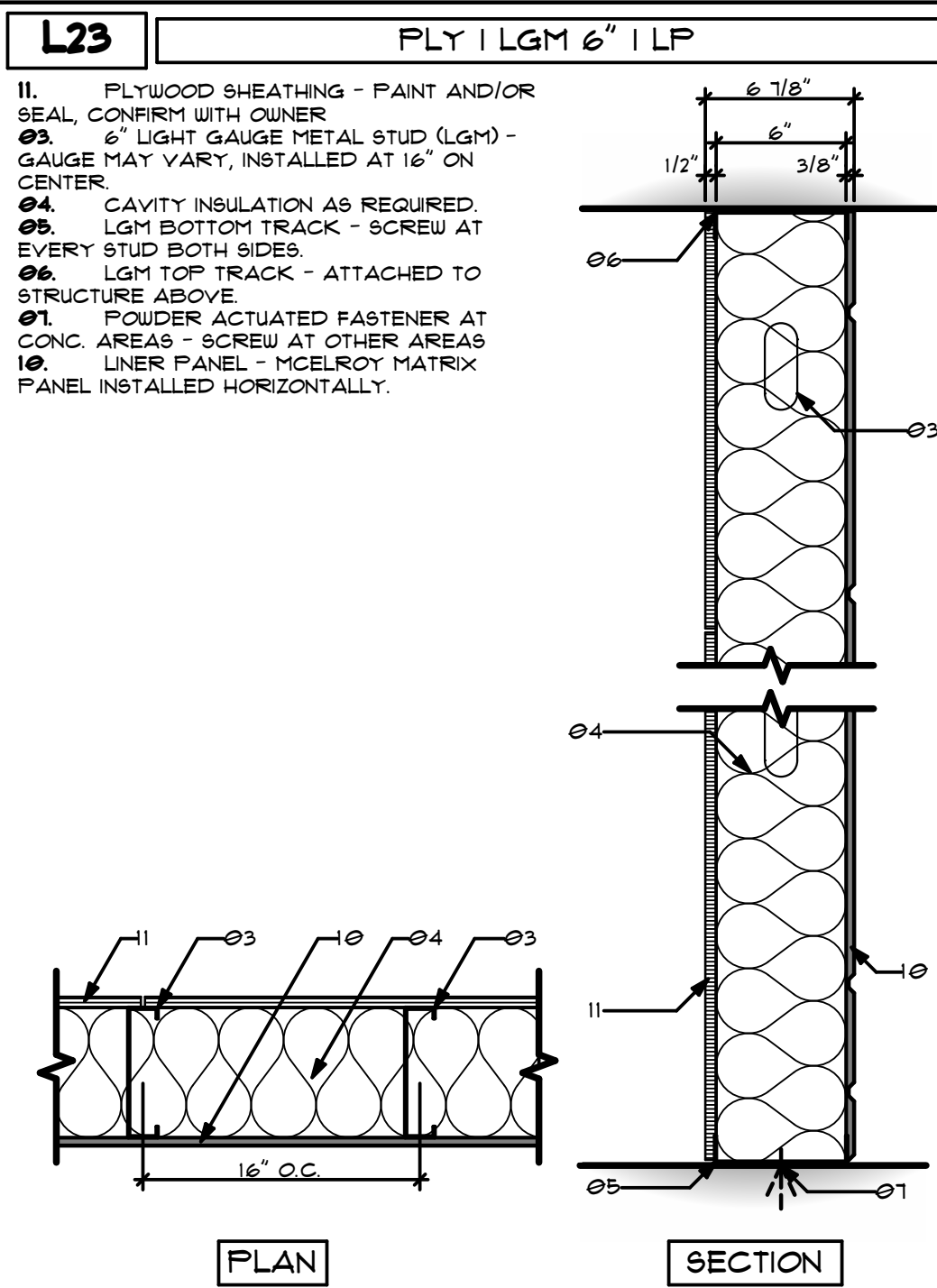
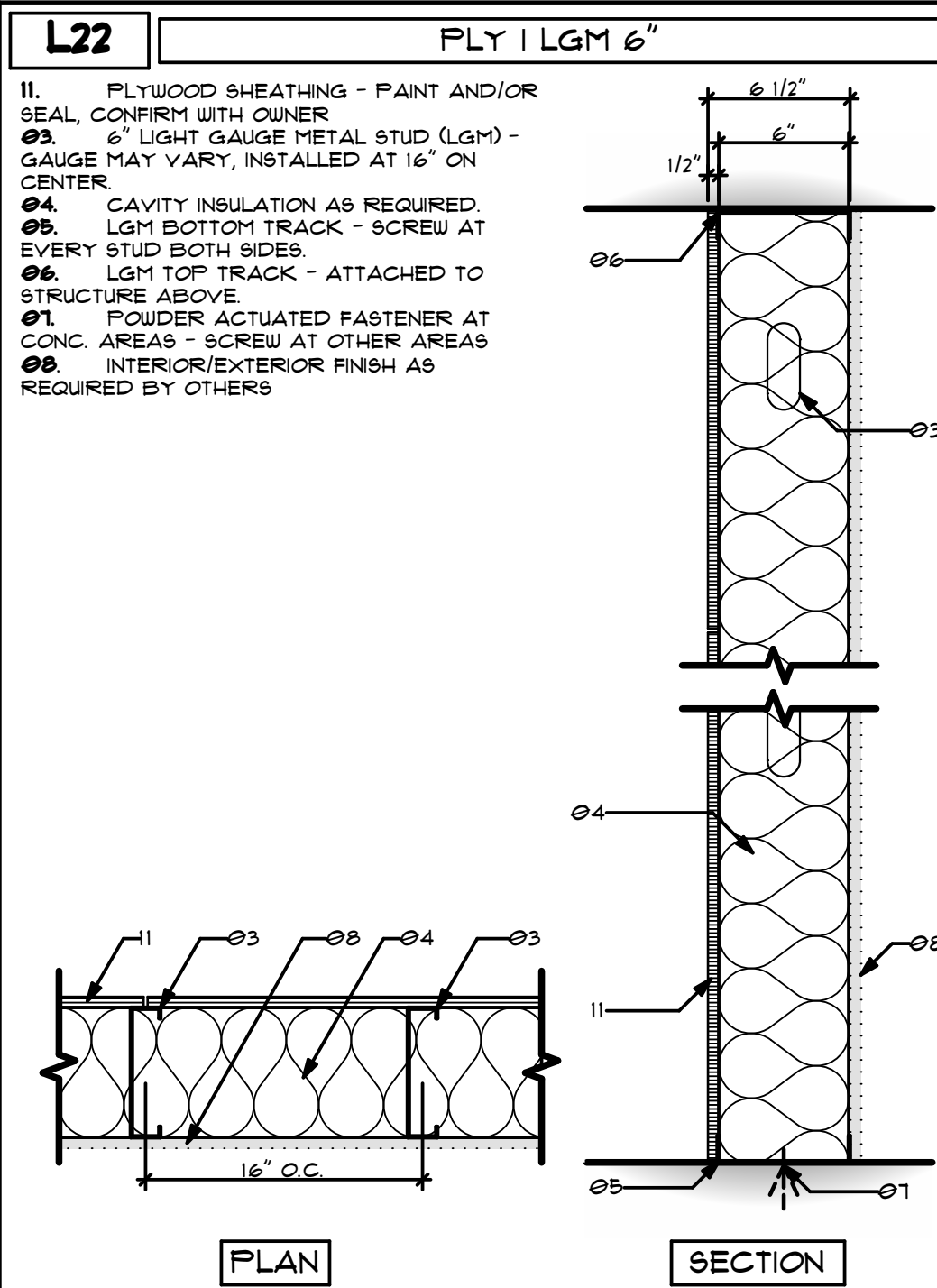
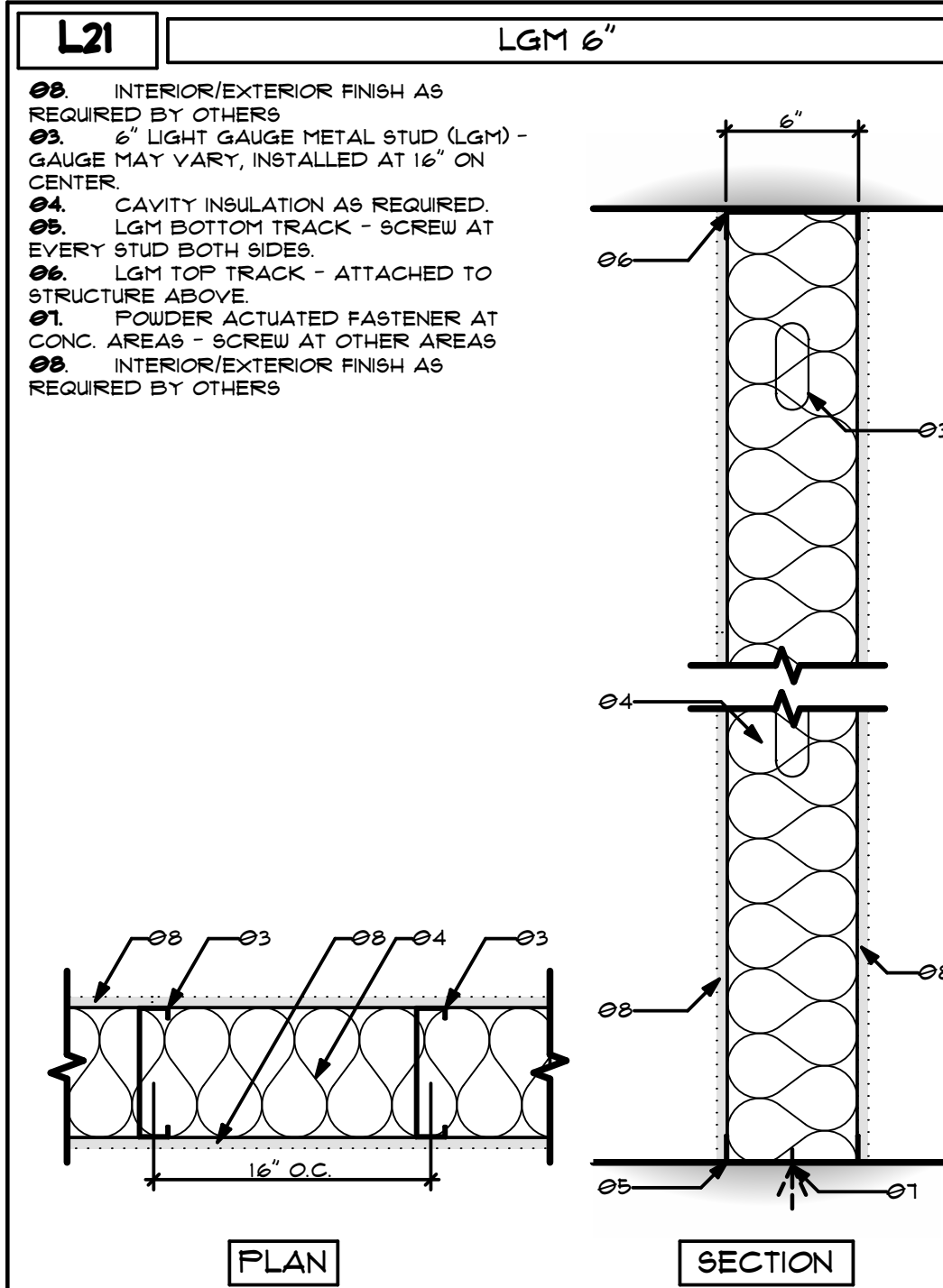
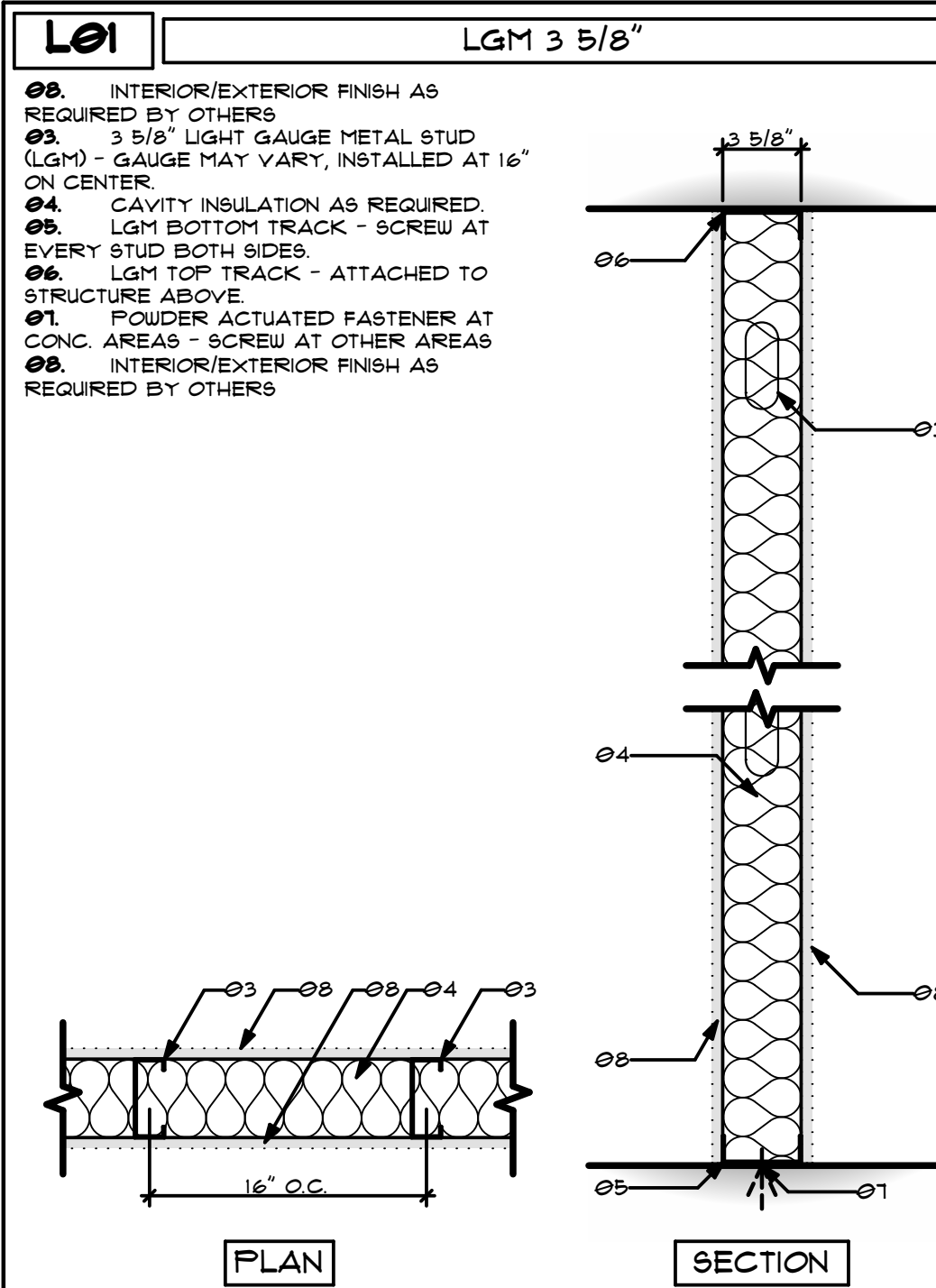
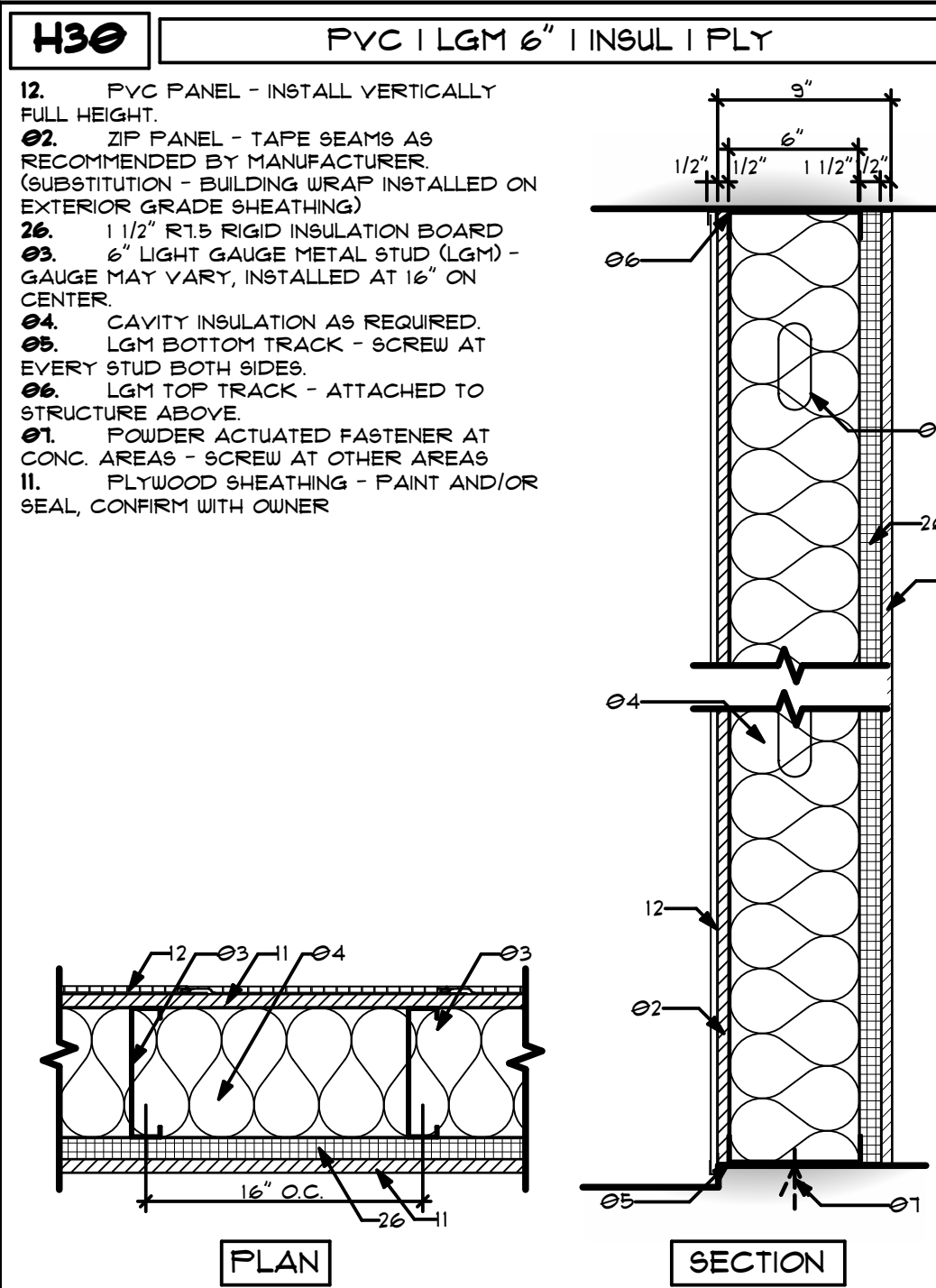
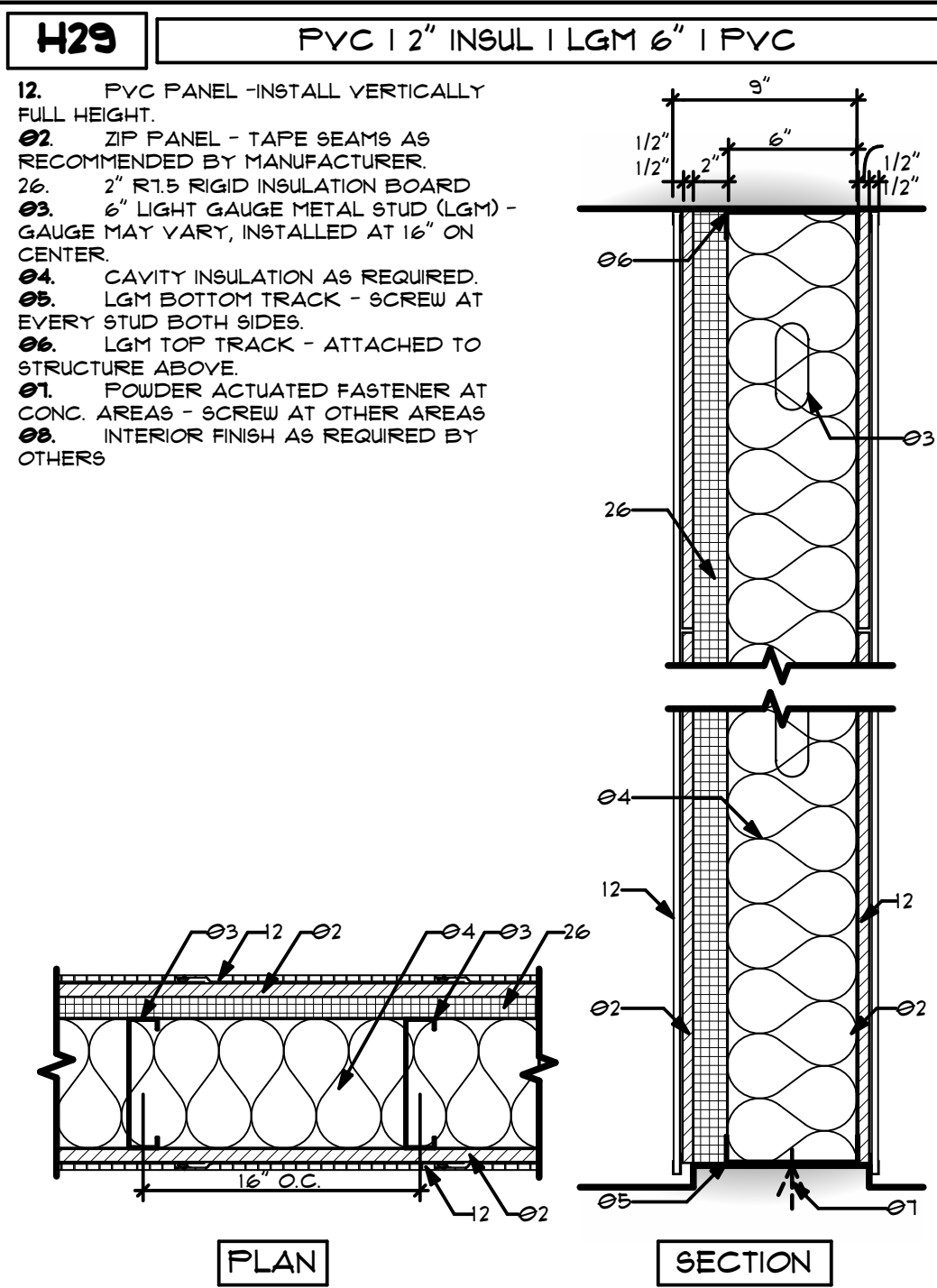
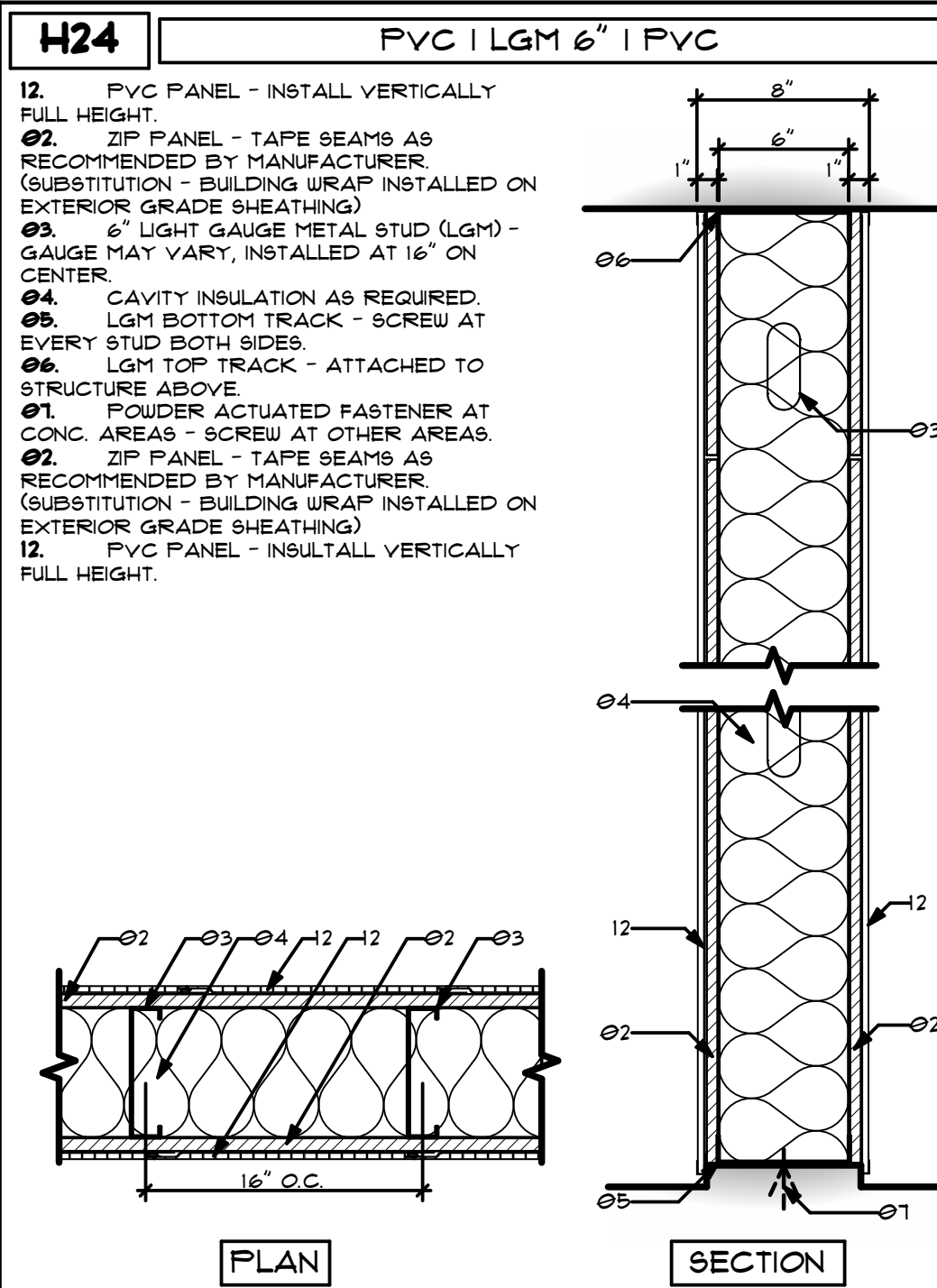
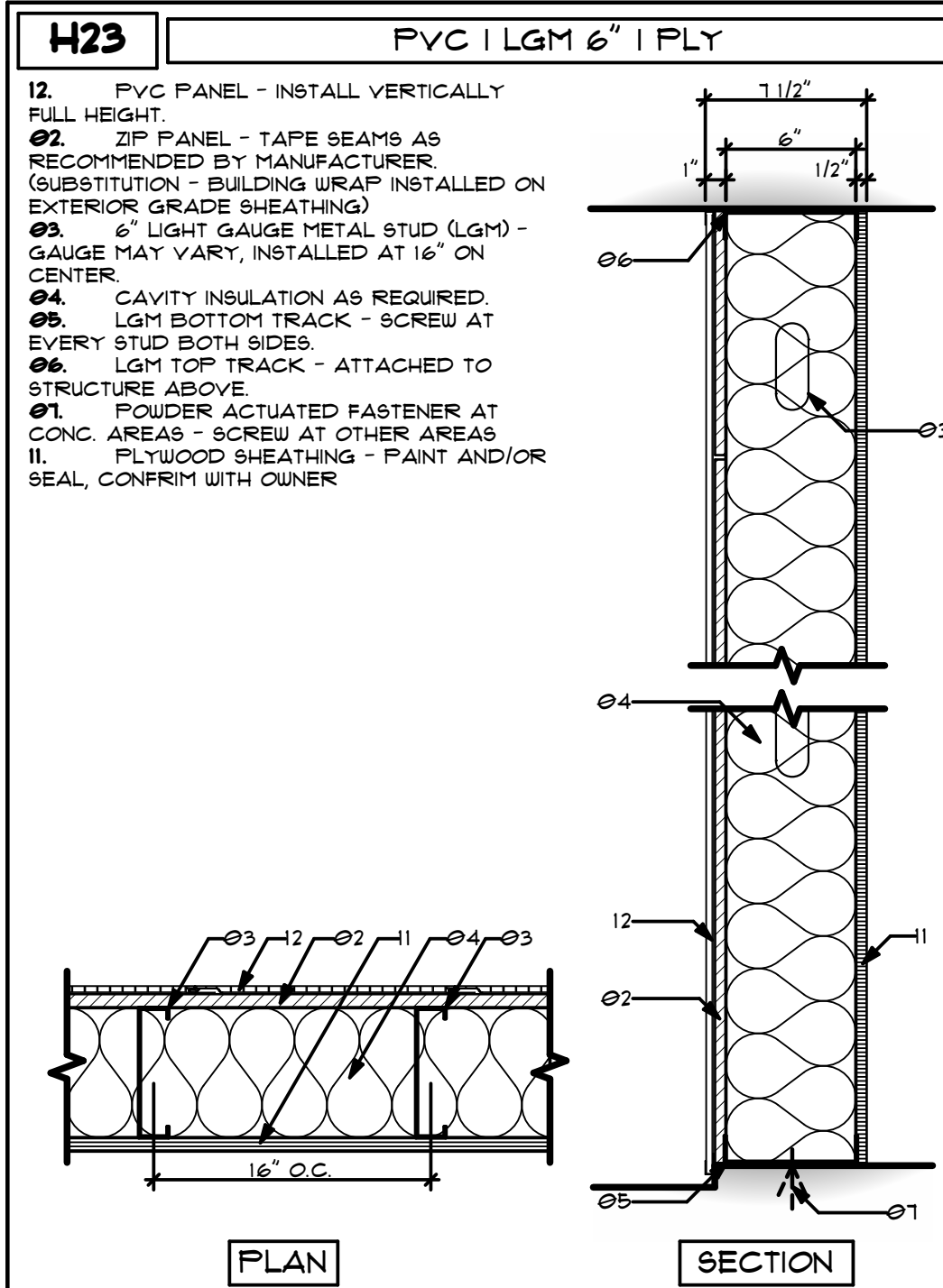
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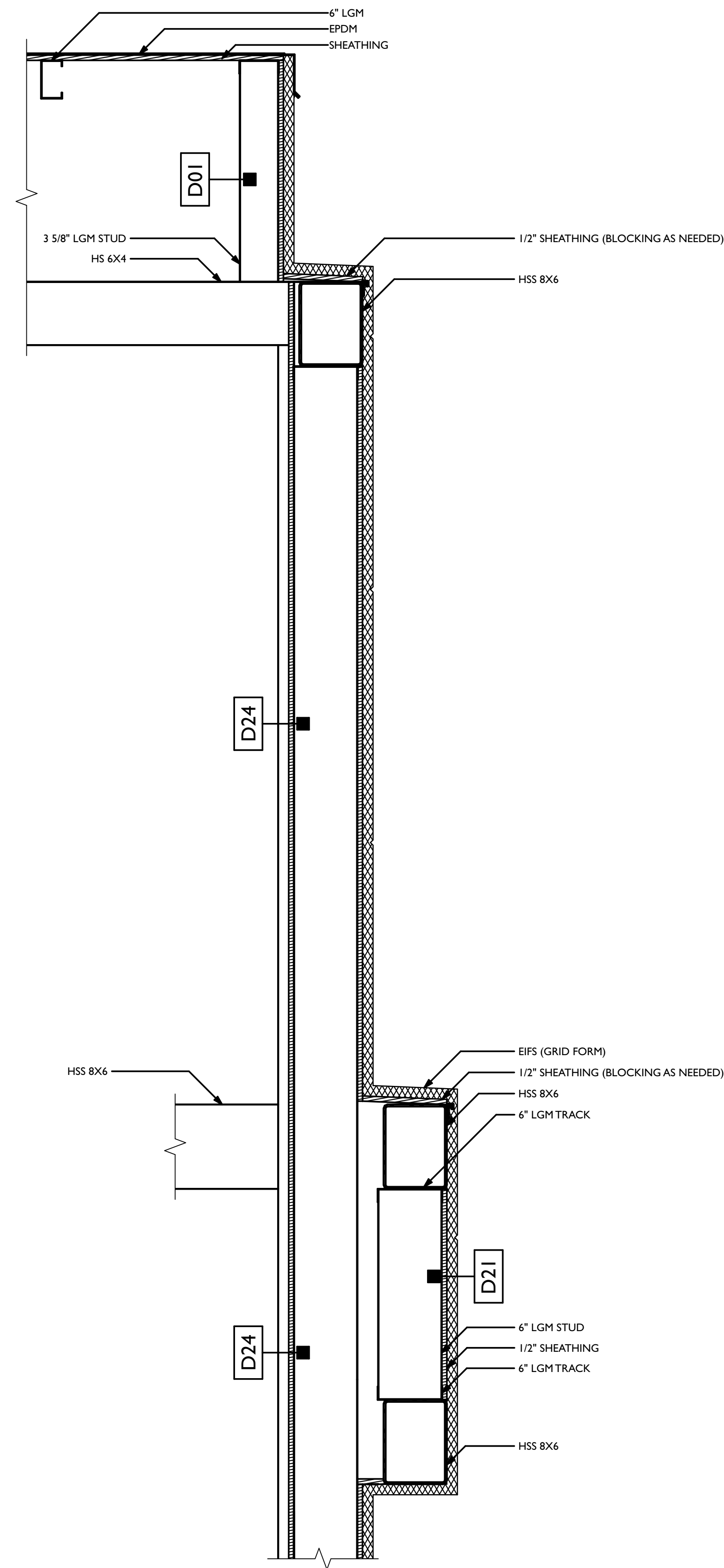
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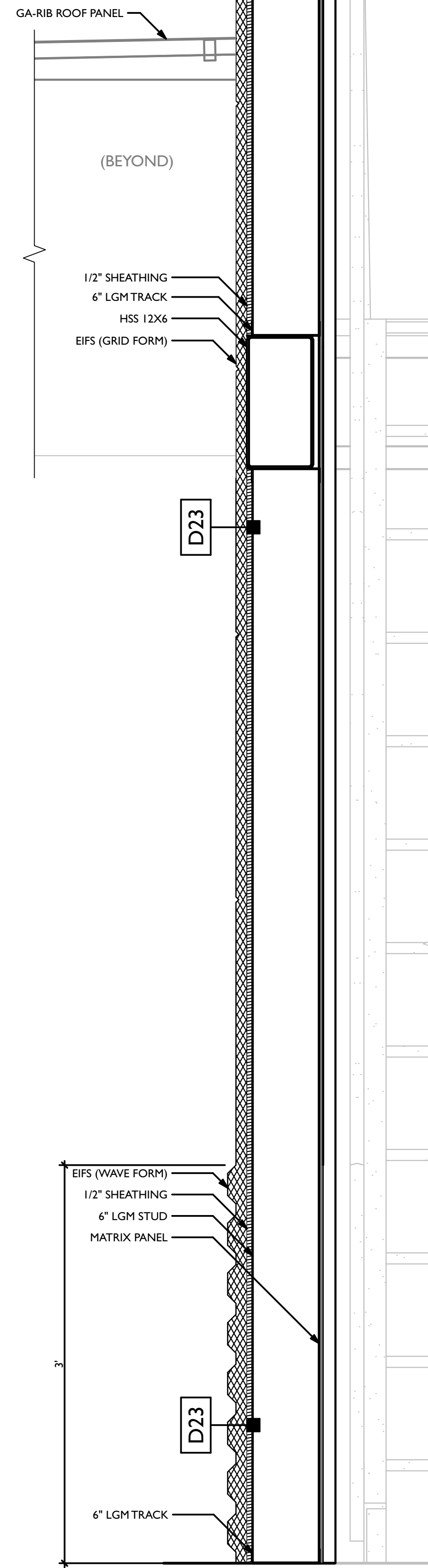
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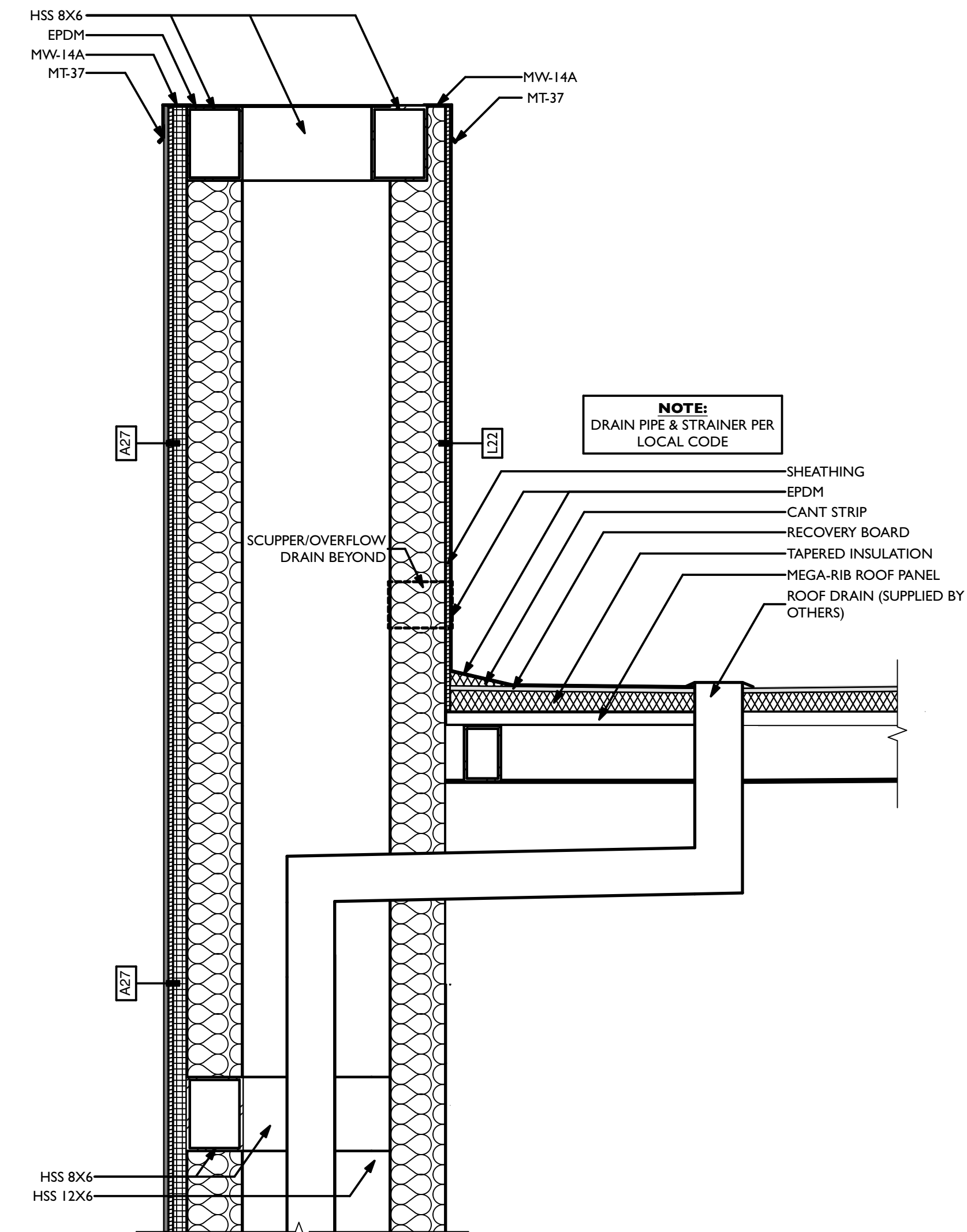
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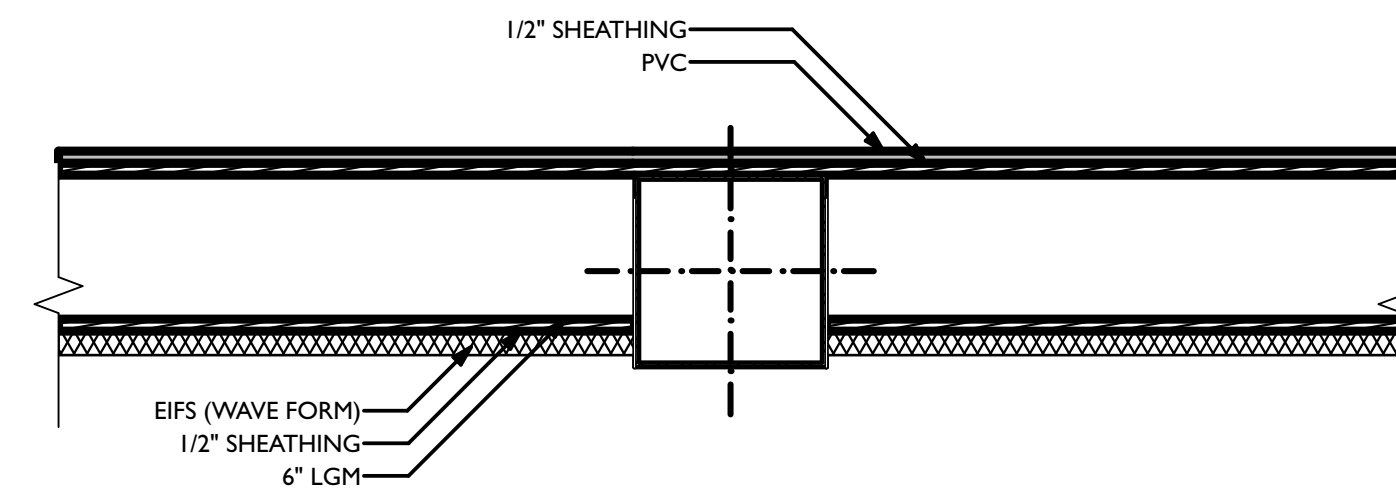
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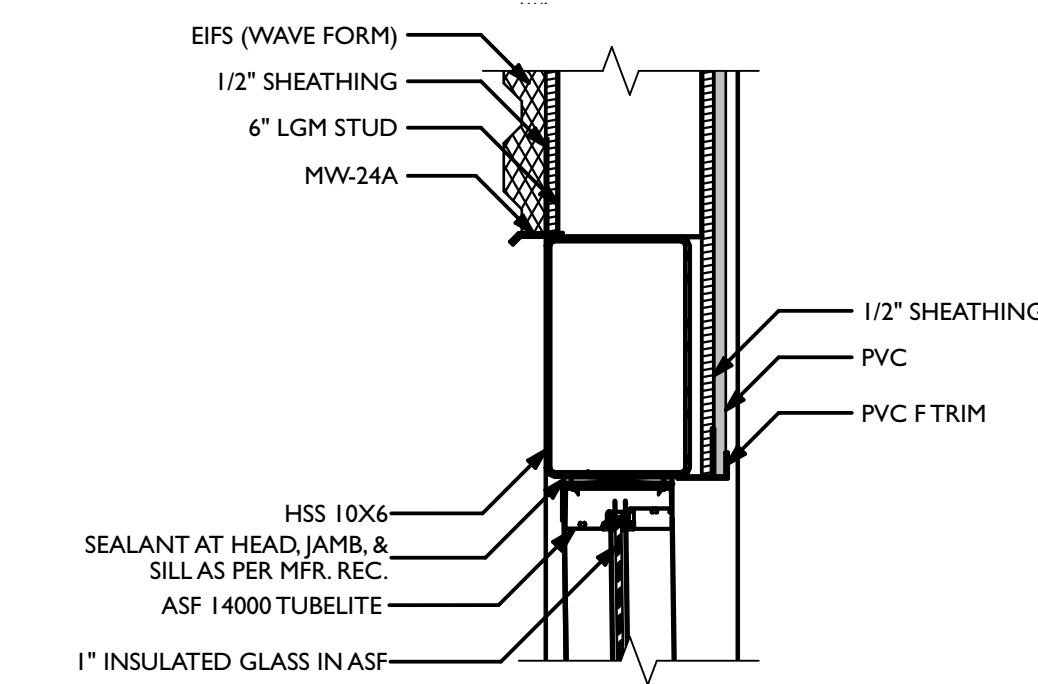
C SECTION DETAIL - CANOPY AT TOWER
SCALE: 1 1/2" = 1'-0"



D SECTION DETAIL - CTRL. TOWER ROOF DRAIN
SCALE: 1" = 1'-0"



N PLAN DETAIL - WAVE AT COLUMN
SCALE: 1 1/2" = 1'-0"



S SECTION DETAIL - PVC AT ASF HEAD
SCALE: 1 1/2" = 1'-0"

REVISIONS		DESCRIPTION
ID	DATE	FOR PERMIT
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MODERNWASH
5220 SCOTTSVILLE ROAD
BOWLING GREEN, KY 42104

MODEL: AXIOM BETA
RETAIL TOWER
2023

NEW CAR WASH FOR:
TUNNEL VISION CAR WASH
20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



USE QR CODE
FOR MOST
CURRENT
PROJECT
DRAWINGS.



PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####

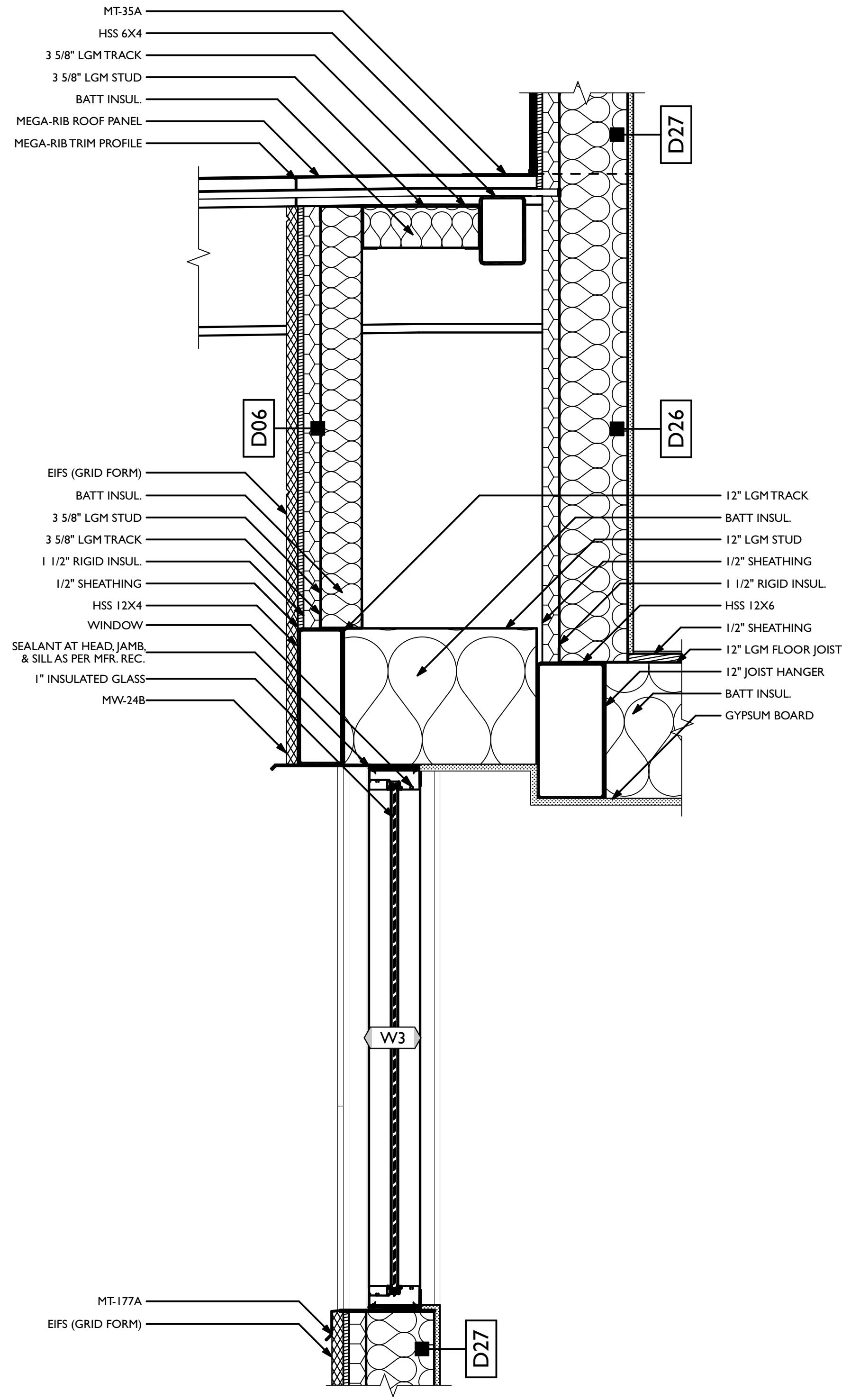
SHEET:

MV-6.3

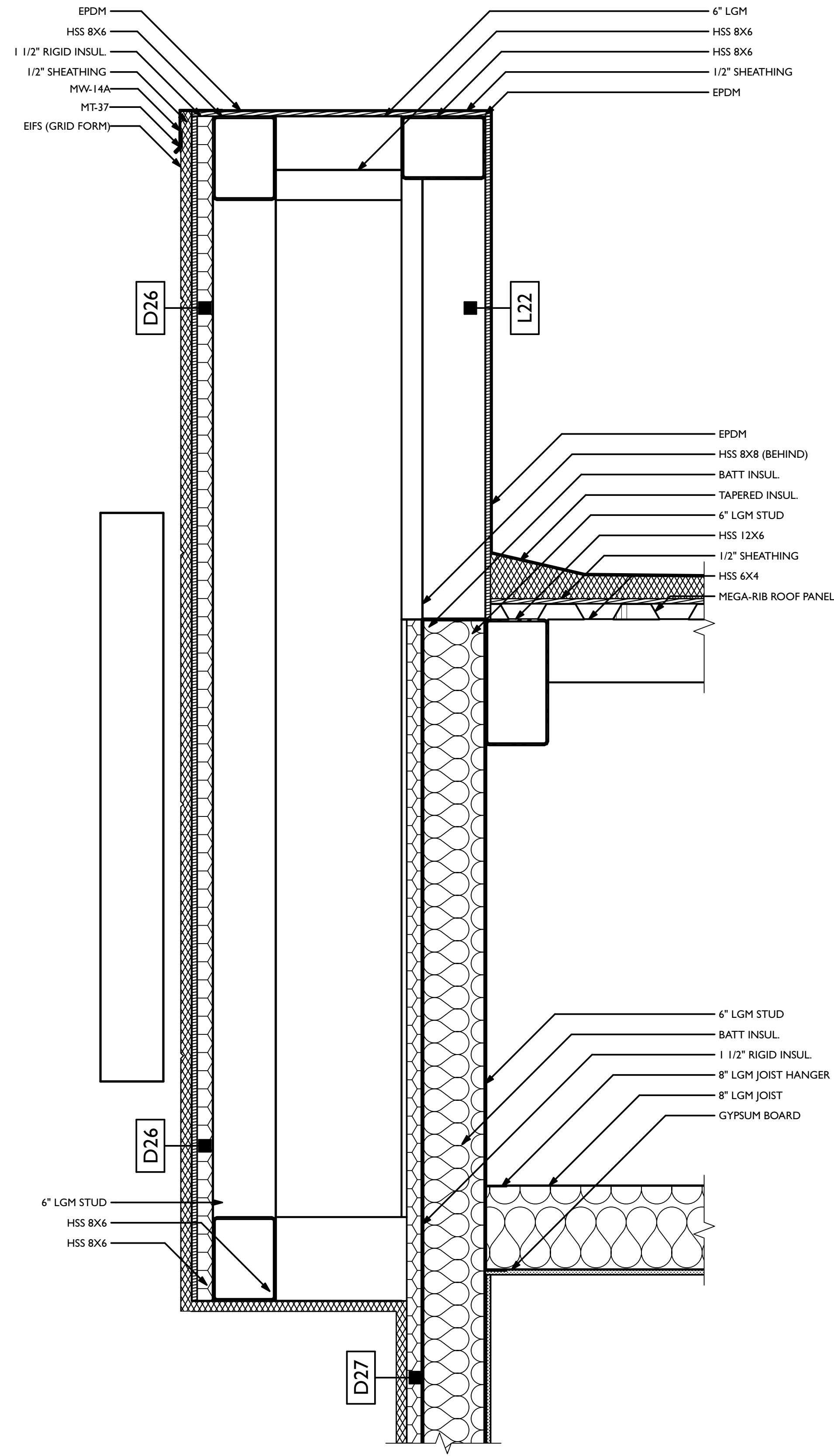
2D/3D DETAILS

DATE OF CREATION: 09/09/21 MW JOB #: 2022-21

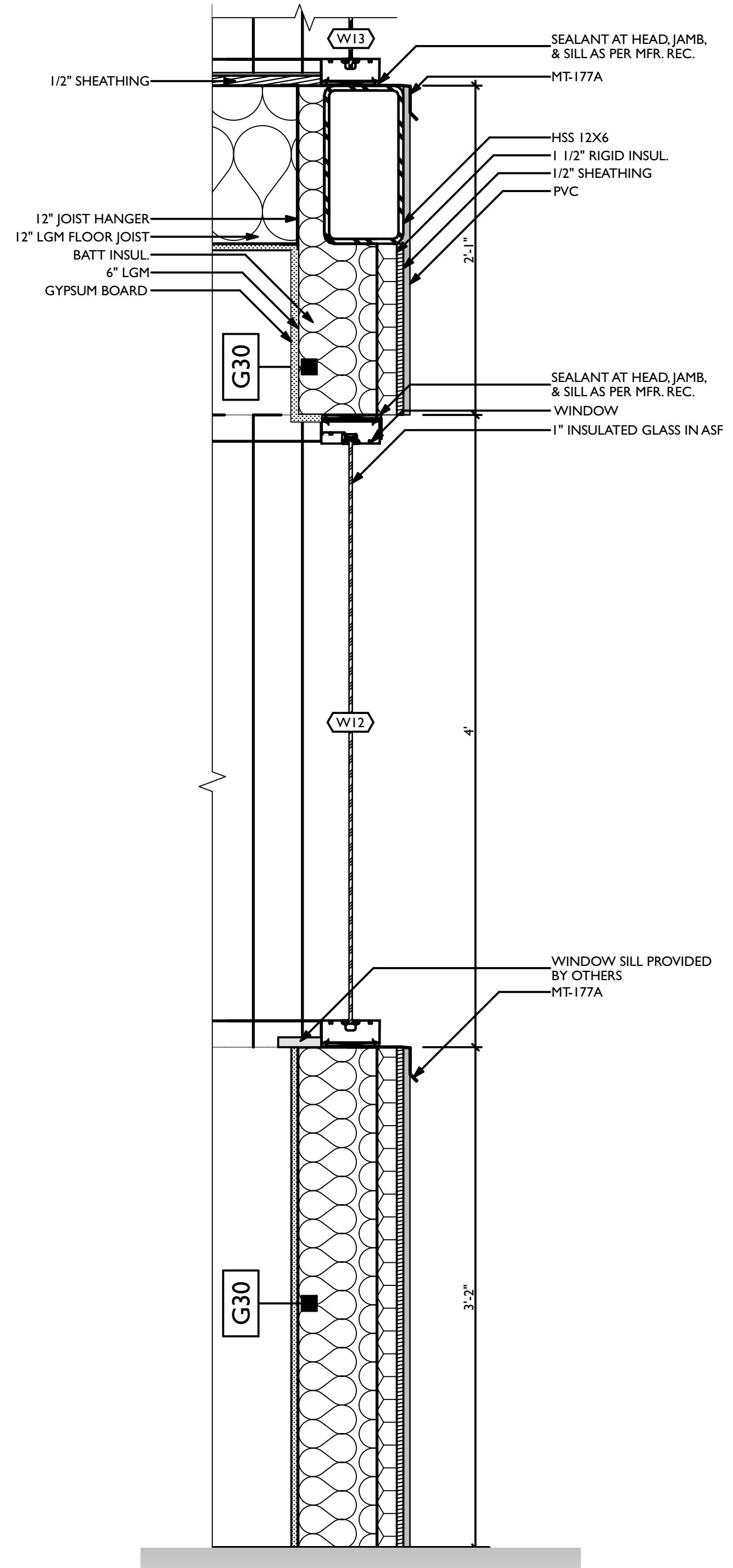
A SECTION DETAIL - CONTROL TOWER
SCALE: 1 1/2" = 1'-0"



C SECTION DETAIL - CONTROL TOWER
SCALE: 1 1/2" = 1'-0"



E SECTION DETAIL - CONTROL TOWER
SCALE: 1 1/2" = 1'-0"



REVISIONS		DESCRIPTION
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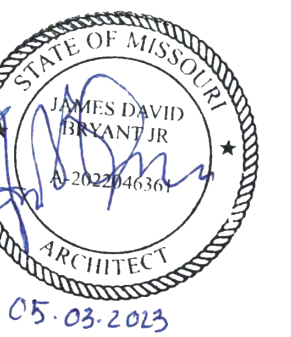
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BOWLING GREEN, KY 42104
MODEL: AXIOM BETA
RETAIL TOWER
2023

NEW CAR WASH FOR:
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LEE'S SUMMIT, MO 64081



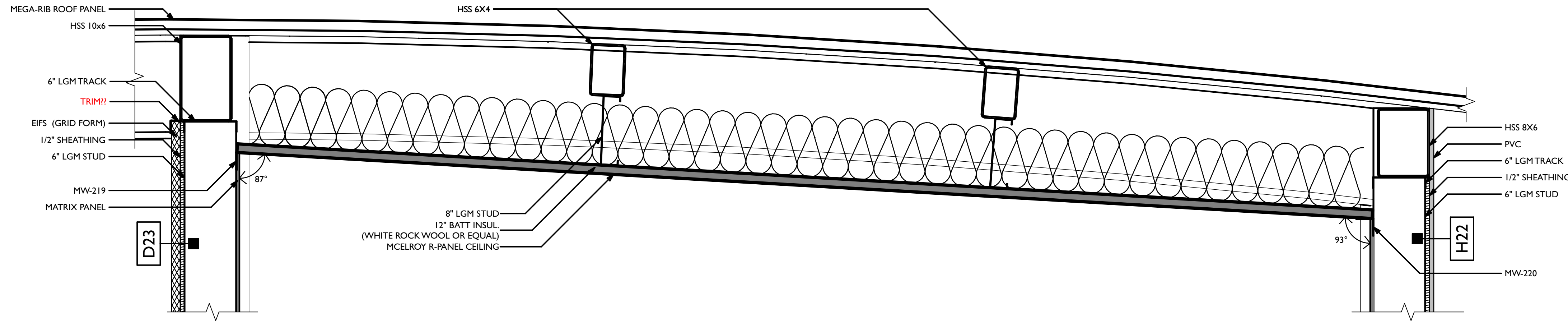
PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####

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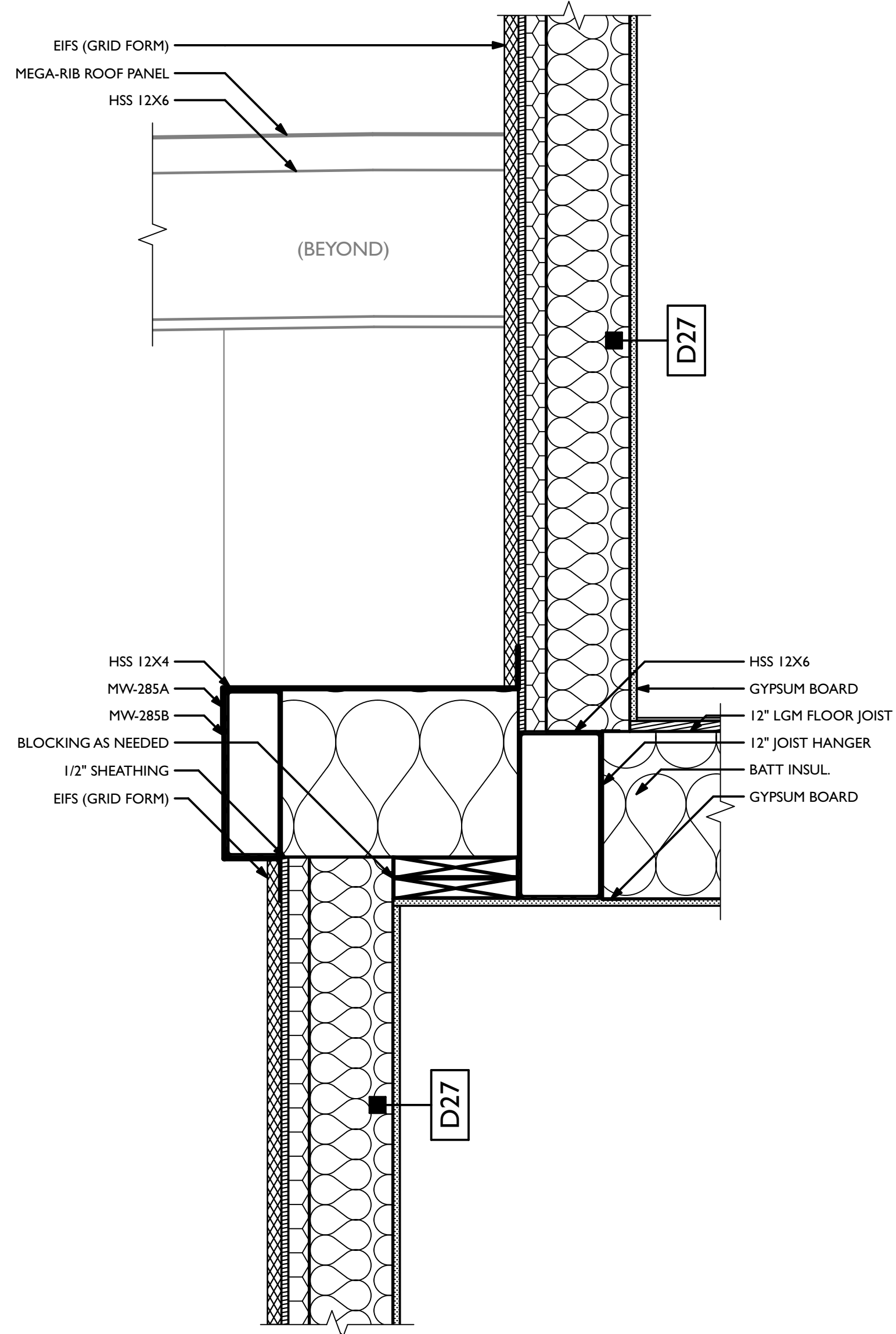
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2D/3D DETAILS

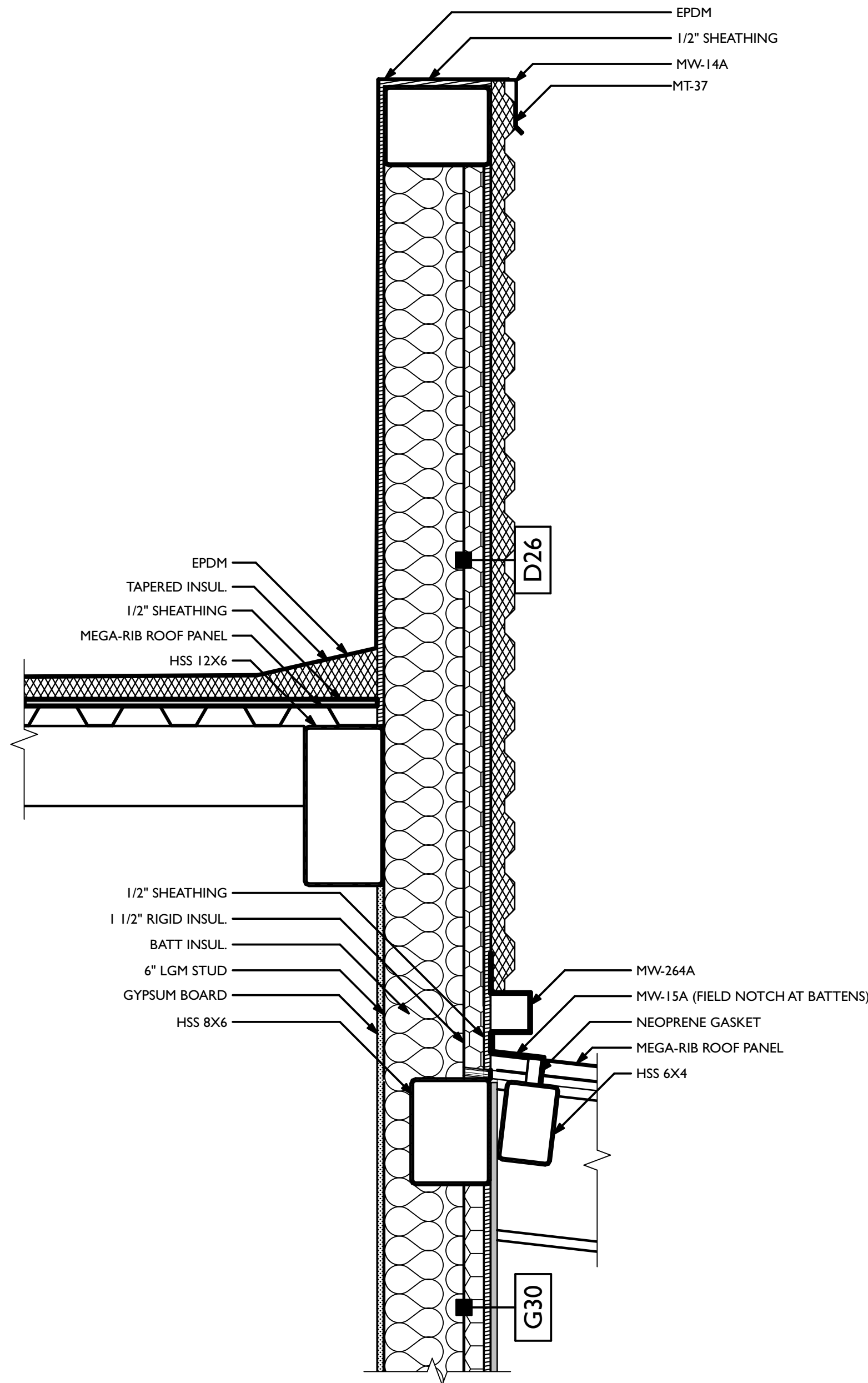
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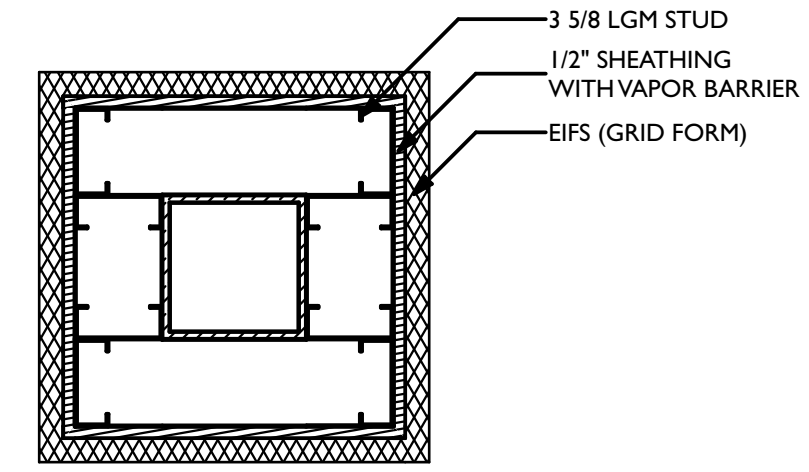
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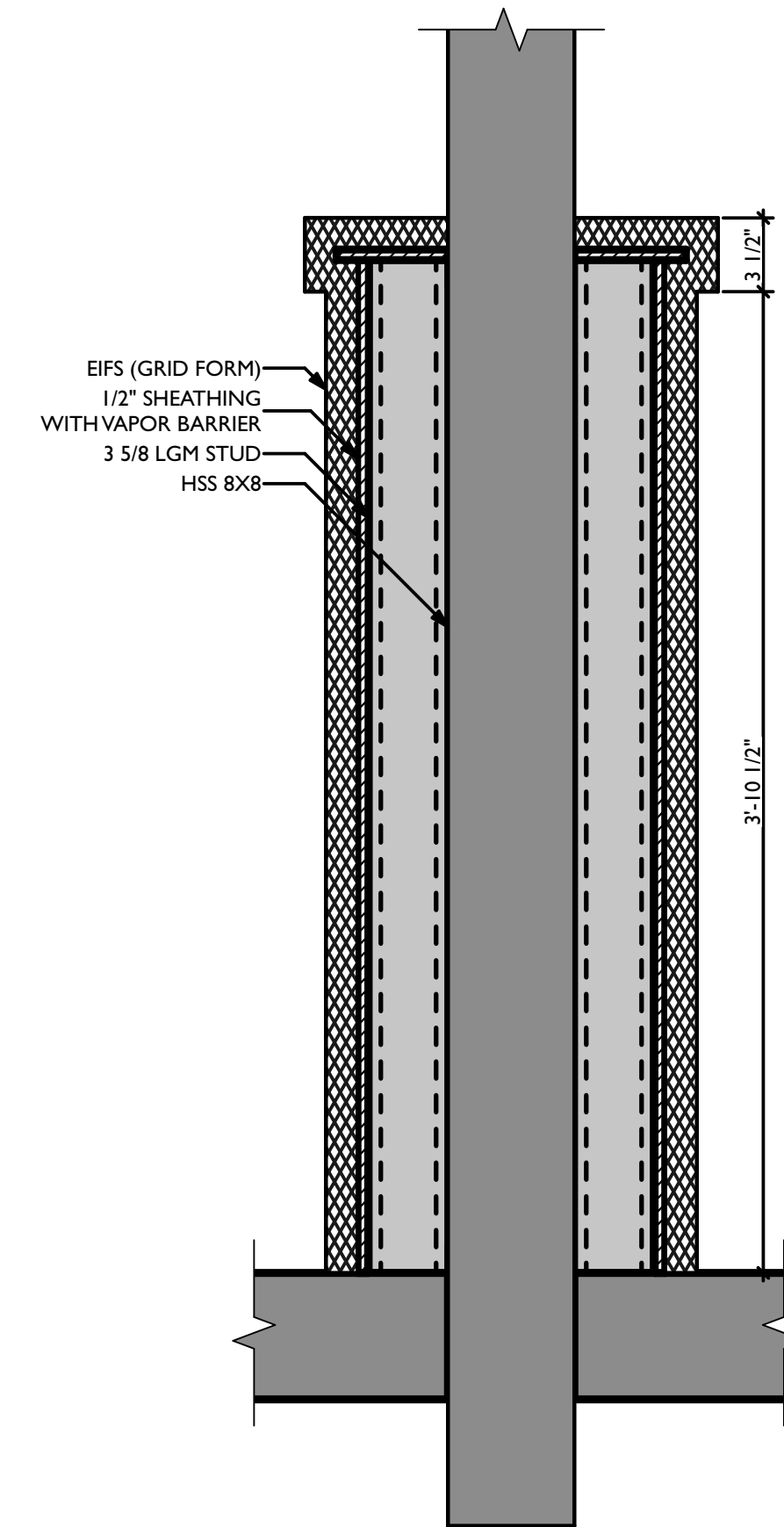
F SECTION DETAIL - CONTROL TOWER
SCALE: 1 1/2" = 1'-0"



H SECTION DETAIL - CONTROL TOWER
SCALE: 1 1/2" = 1'-0"



E PLAN DETAIL - COLUMN WRAP
SCALE: 1 1/2" = 1'-0"



O SECTION DETAIL - COLUMN WRAP
SCALE: 1 1/2" = 1'-0"

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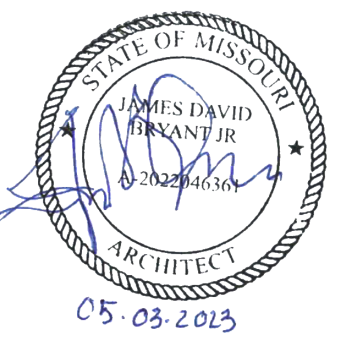
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MODERNWASH
5220 SCOTTSVILLE ROAD
BOWLING GREEN, KY 42104
MODEL: AXIOM BETA
RETAIL TOWER
2023

24 OF 39

NEW CAR WASH FOR:
TUNNEL VISION CAR WASH
20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081

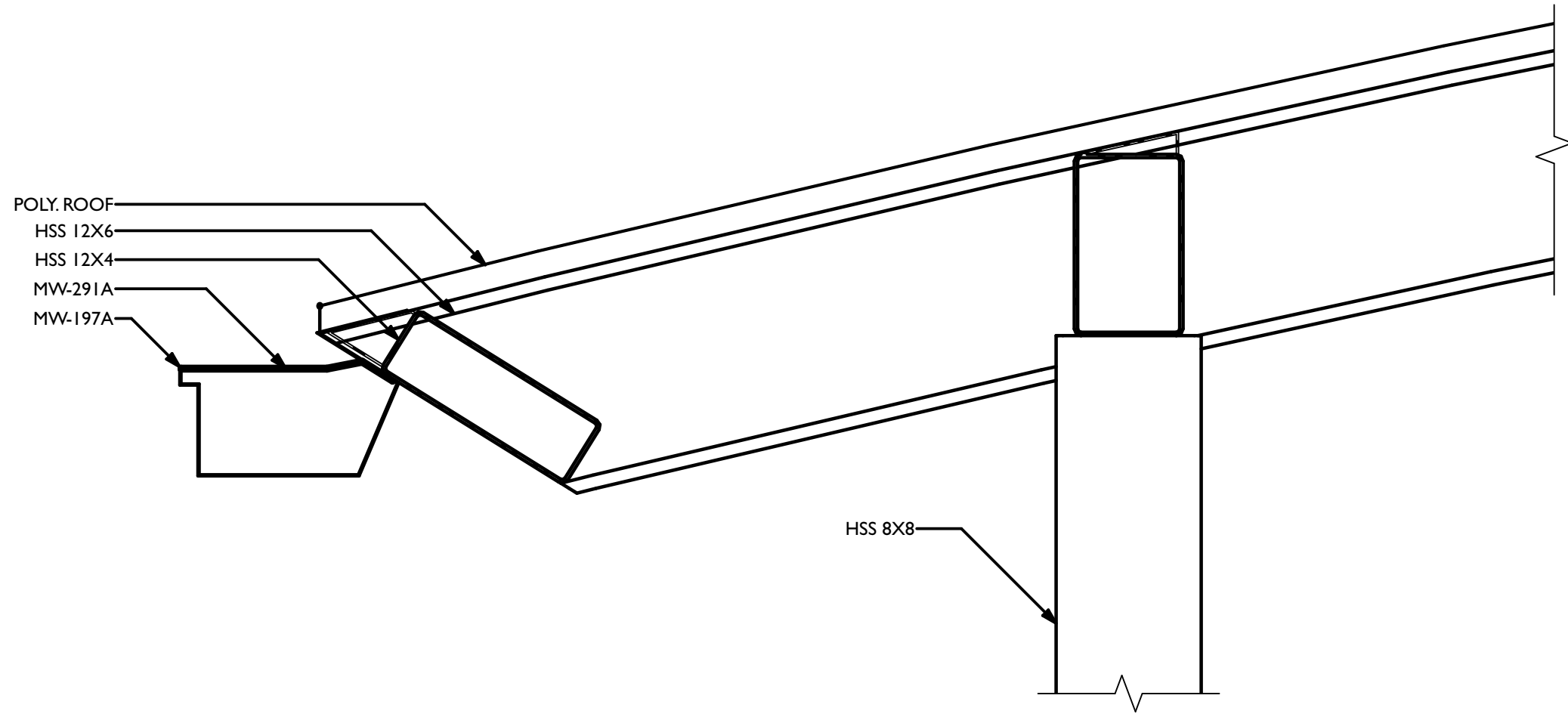


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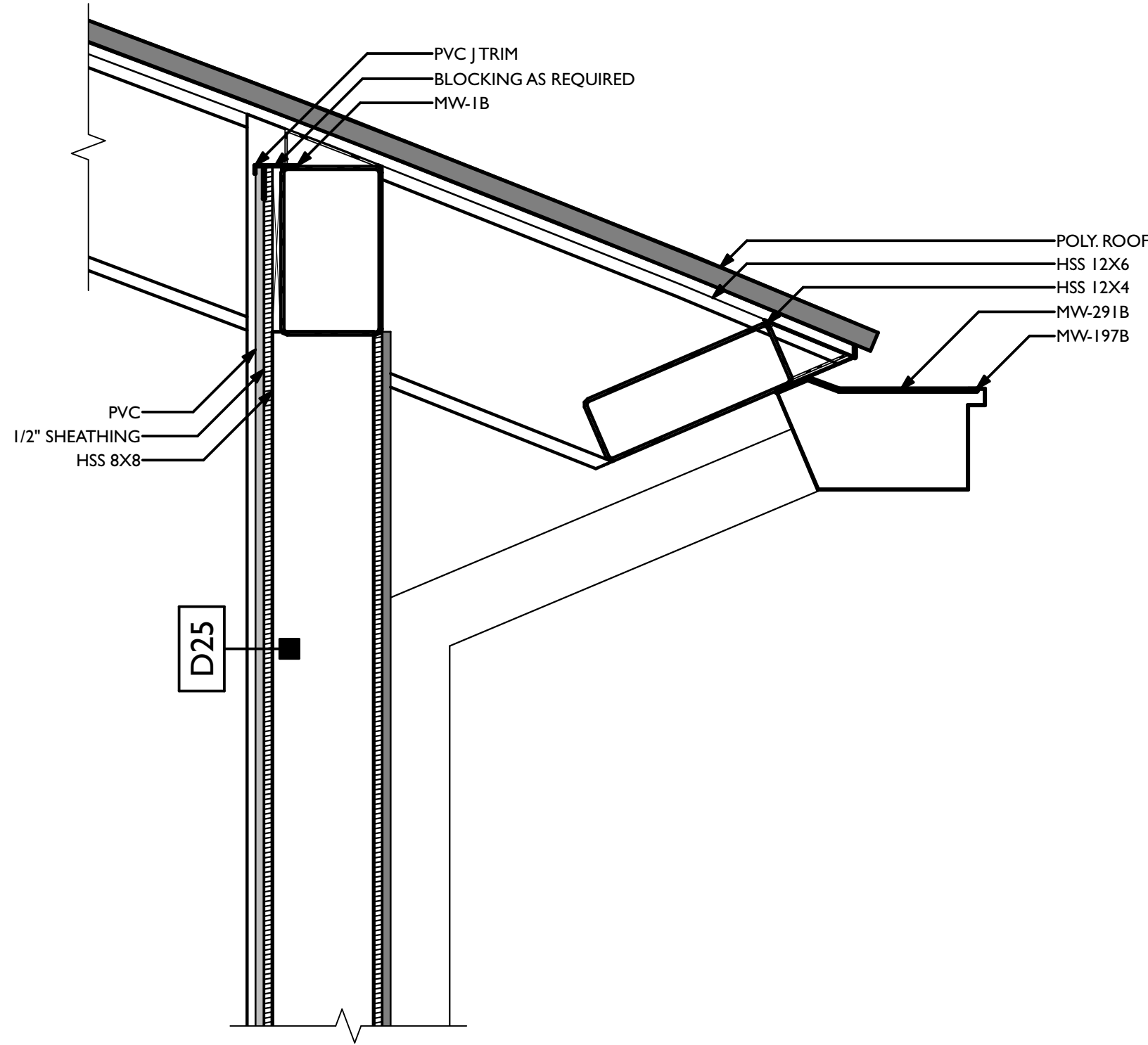
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MV-6.5

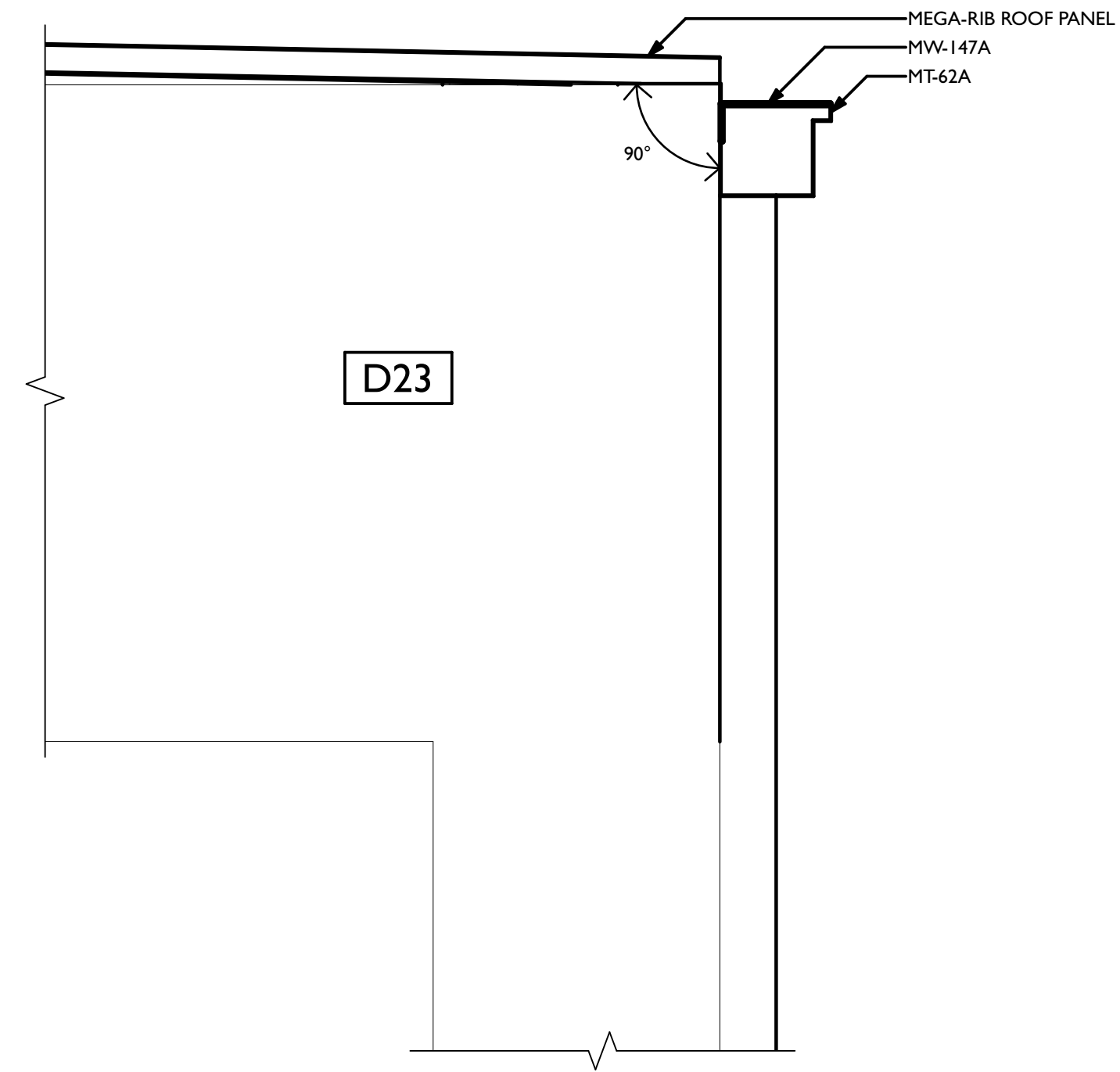
2D/3D DETAILS



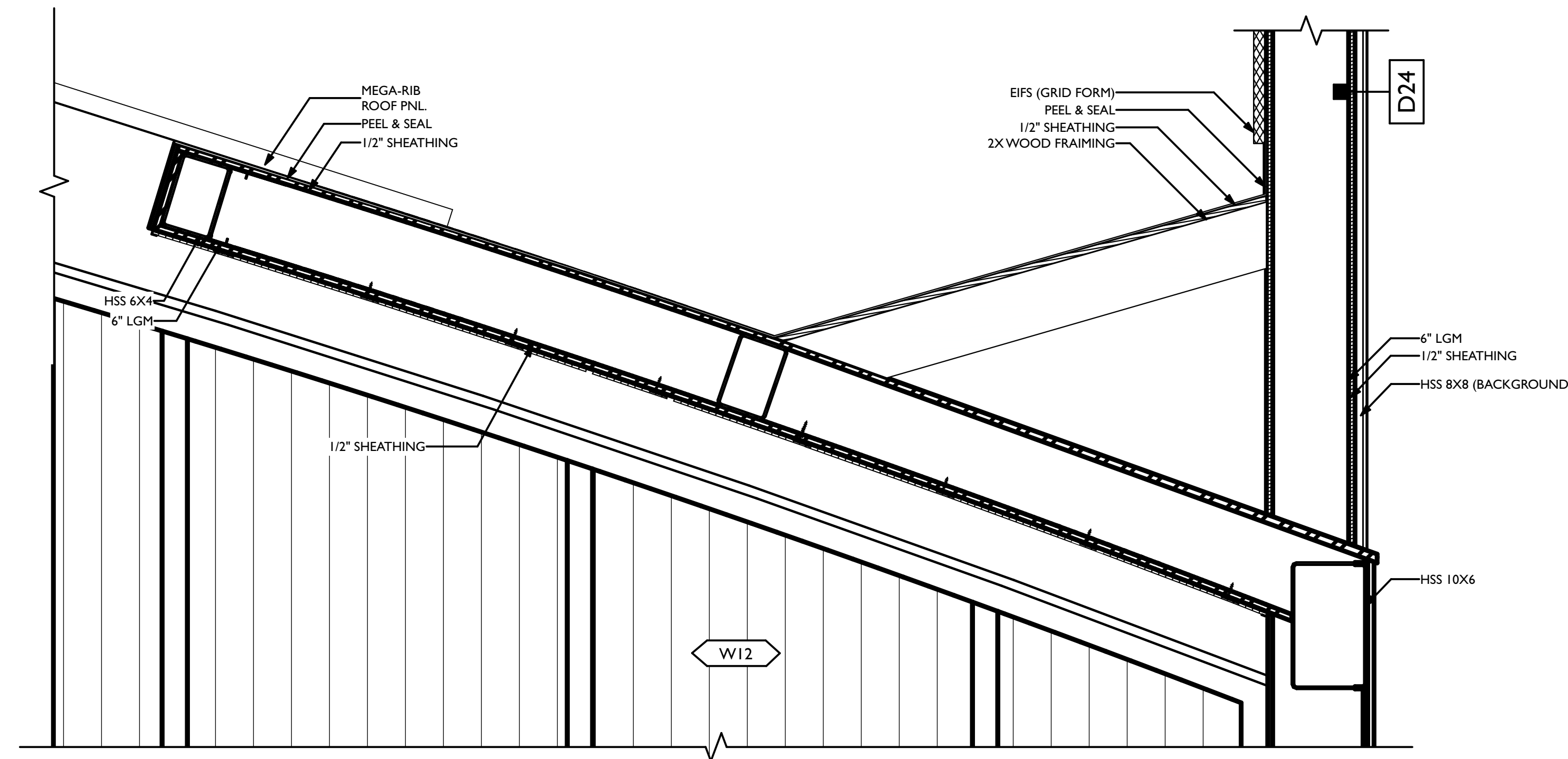
A SECTION DETAIL - PAY CANOPY EAVE
SCALE: 1 1/2" = 1'-0"



C SECTION DETAIL - WASH BAY EAVE
SCALE: 1 1/2" = 1'-0"

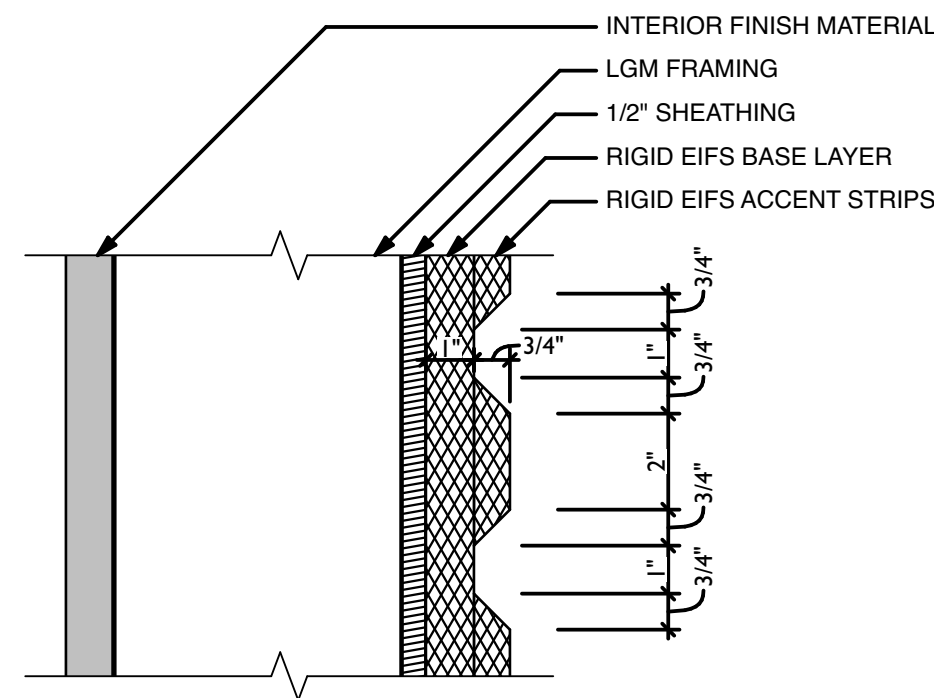


E SECTION DETAIL - DOG WASH CANOPY EAVE
SCALE: 1 1/2" = 1'-0"

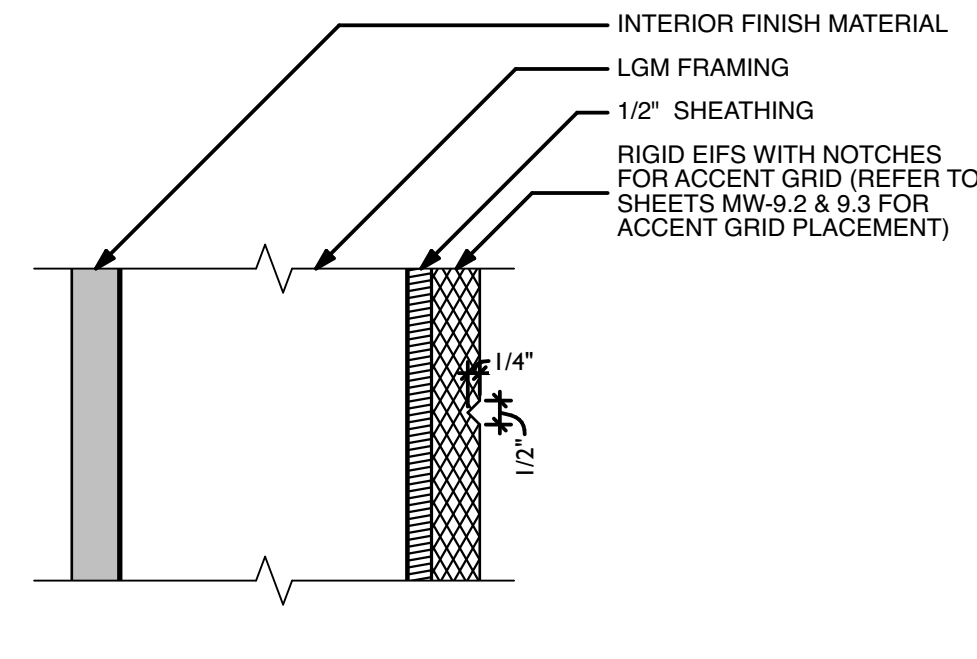


NOTE:
REFER TO SHEET MW-6.11
FOR CRICKET ASSEMBLY

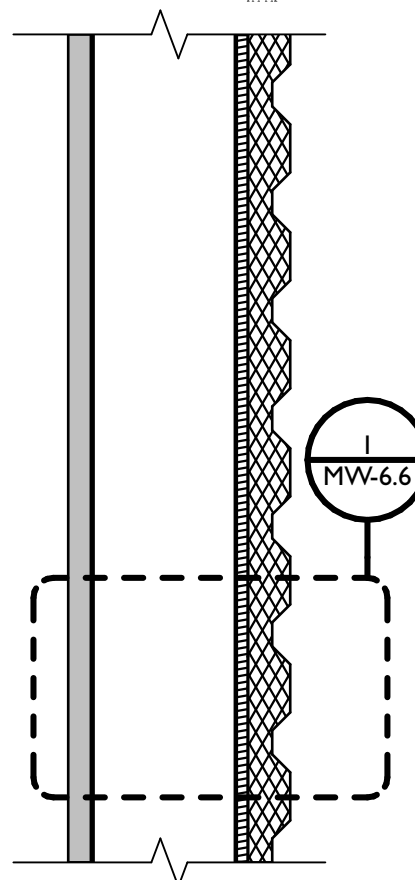
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SCALE: 1 1/2" = 1'-0"



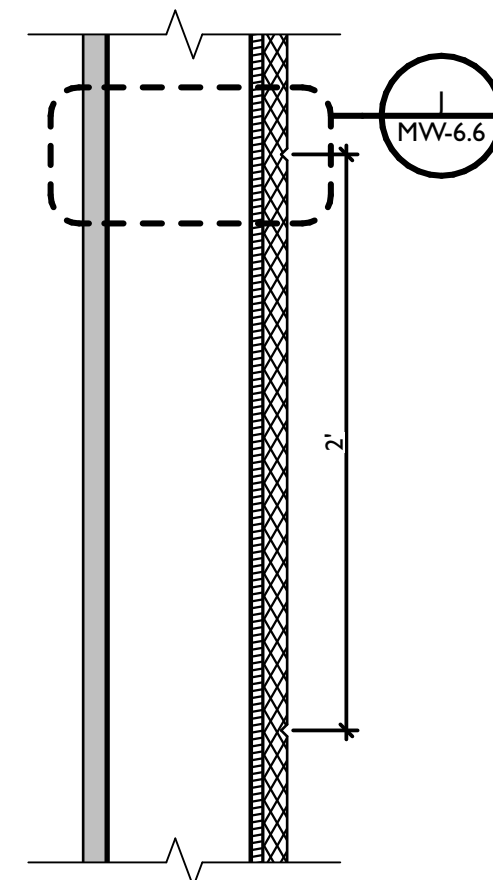
I EIFS GRID LINE ENLARGEMENT
SCALE: 3" = 1'-0"



J EIFS GRID LINE ENLARGEMENT
SCALE: 3" = 1'-0"



N SECTION DETAIL - EIFS (WAVE FORM)
SCALE: 1 1/2" = 1'-0"



O SECTION DETAIL - EIFS (GRID FORM)
SCALE: 1 1/2" = 1'-0"

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BOWLING GREEN, KY 42104

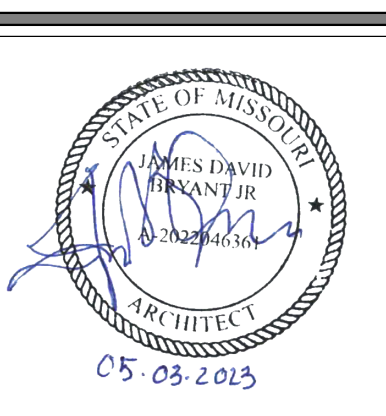
**MODEL: AXIOM BETA
RETAIL TOWER
2023**

25 OF 39

NEW CAR WASH FOR:

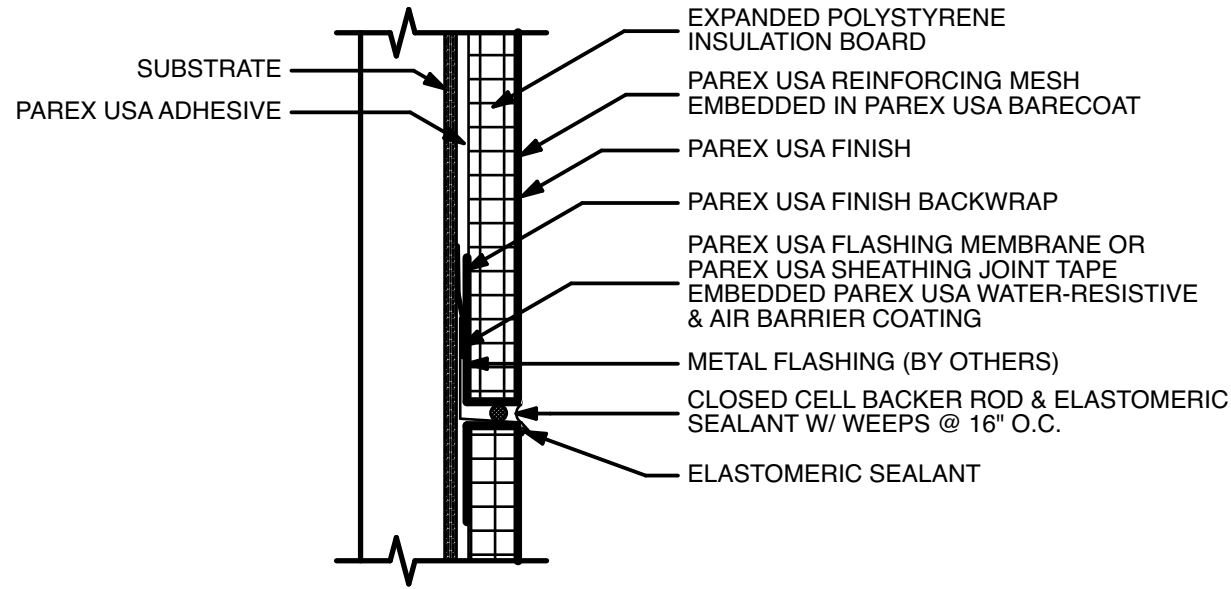
TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081

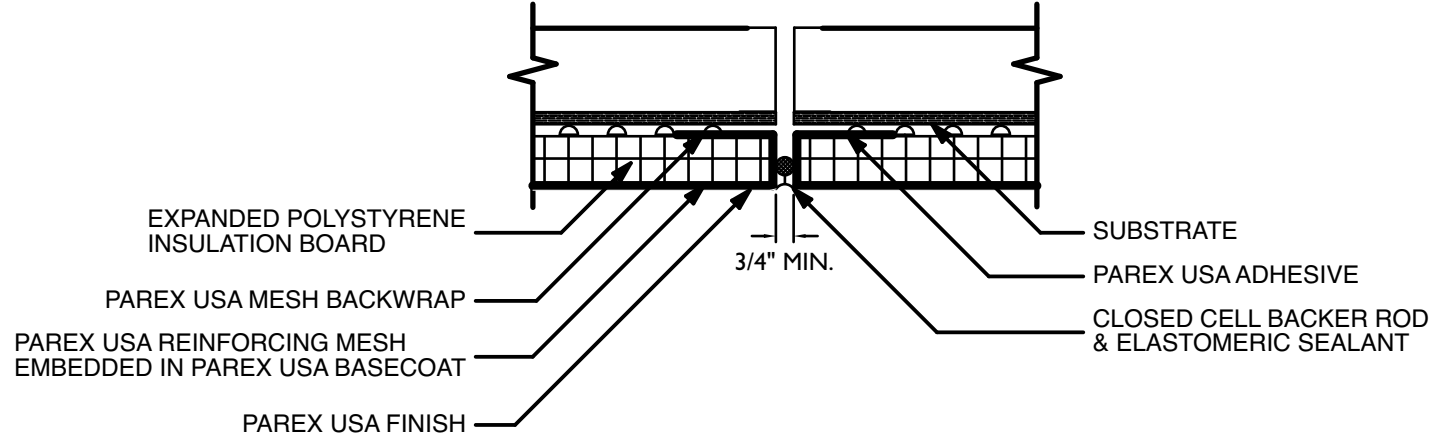


USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.

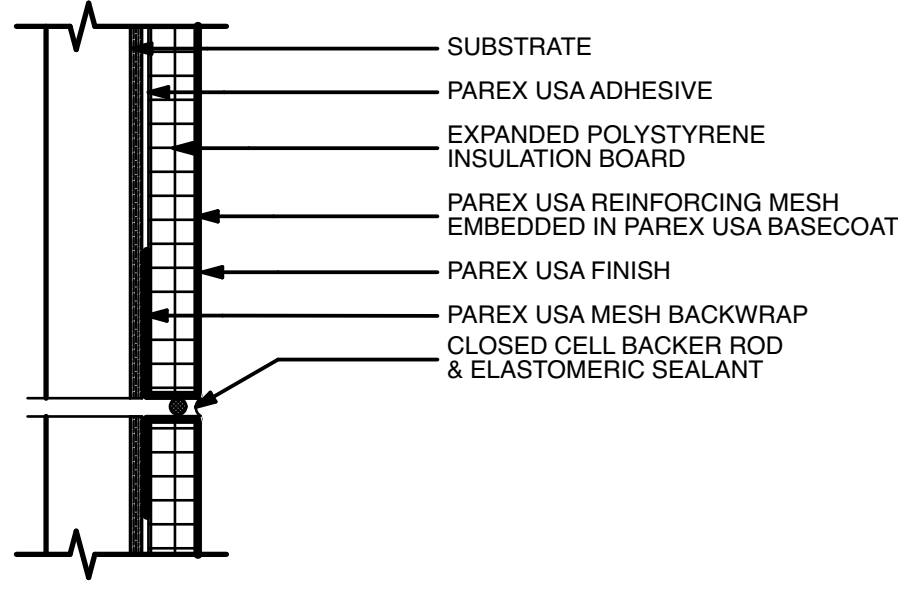
PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####
SHEET: **MW-6.6**
2D/3D DETAILS



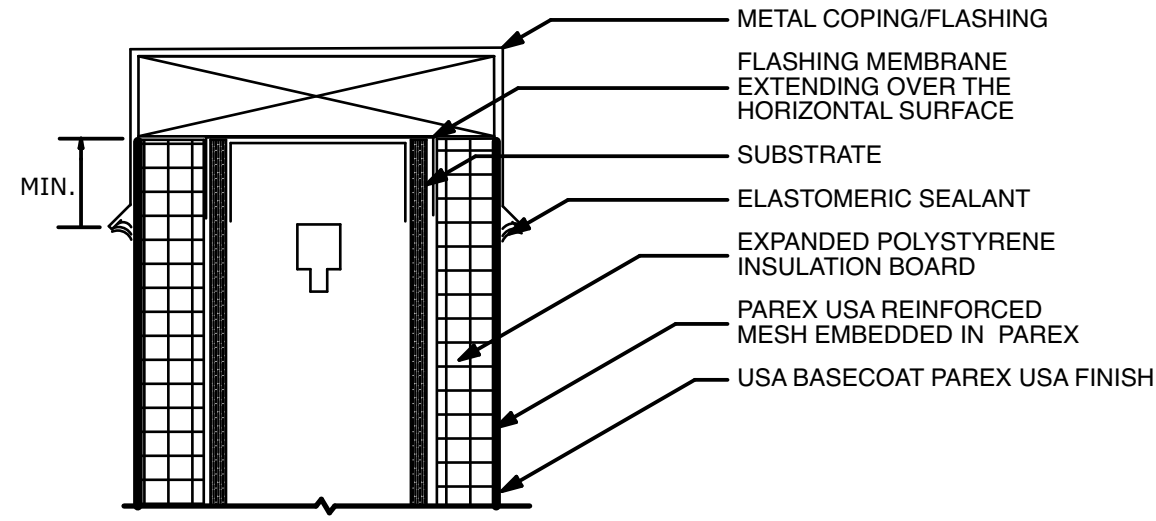
A EIFS - THROUGH SYSTEM FLASHING
SCALE: 1 1/2"= 1'-0"



B EIFS - VERTICAL EXPANSION JOINT
SCALE: 1 1/2"= 1'-0"



C EIFS - HORIZONTAL EXPANSION JOINT
SCALE: 1 1/2"= 1'-0"



E EIFS - PARAPET WALL AT CAP FLASHING
SCALE: 1 1/2"= 1'-0"

REVISIONS	
ID	DESCRIPTION
0	05/03/2023 FOR PERMIT

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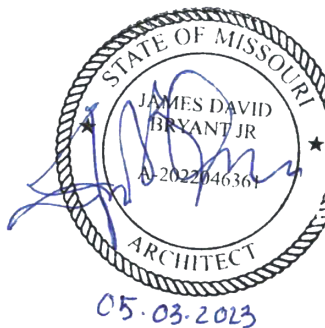
**MODEL: AXIOM BETA
RETAIL TOWER
2023**

26 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



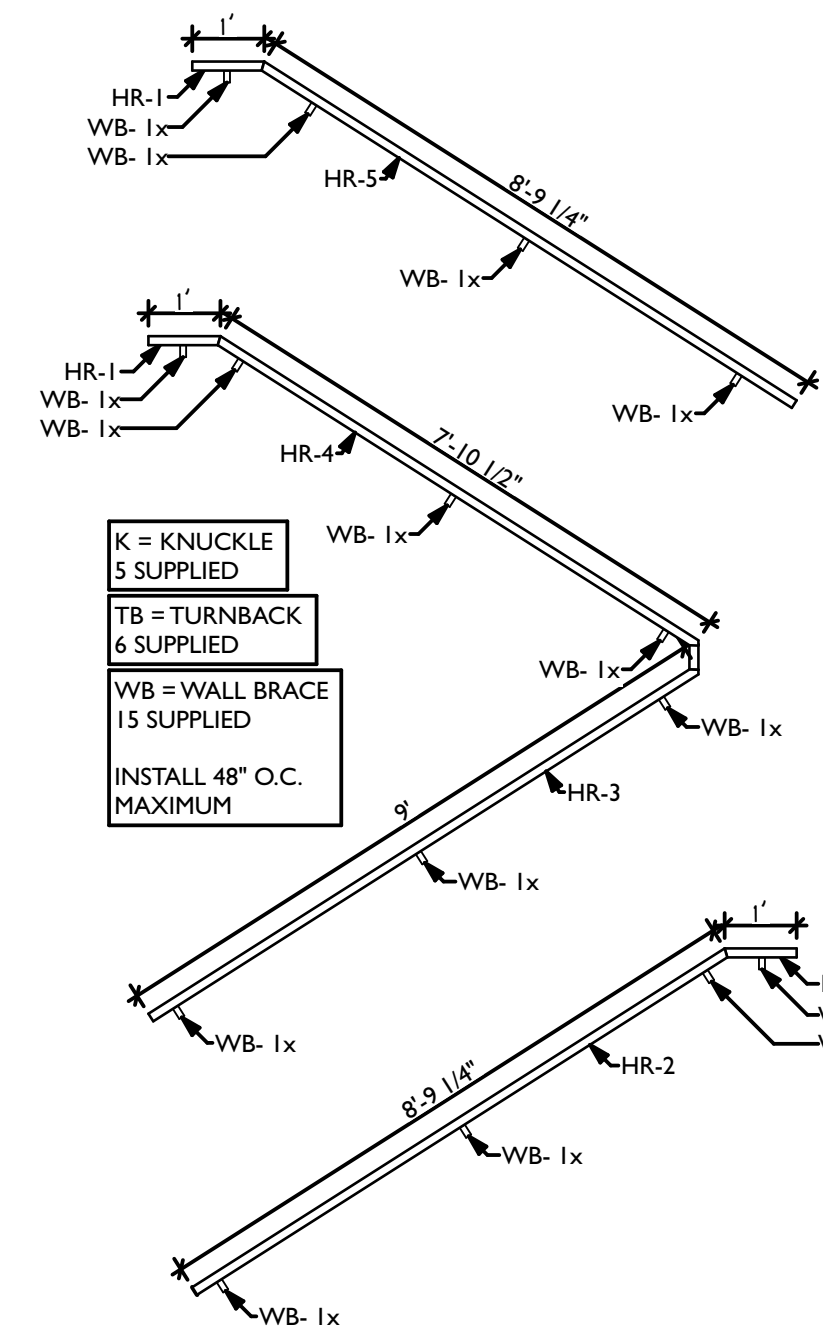
PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####

SHEET:

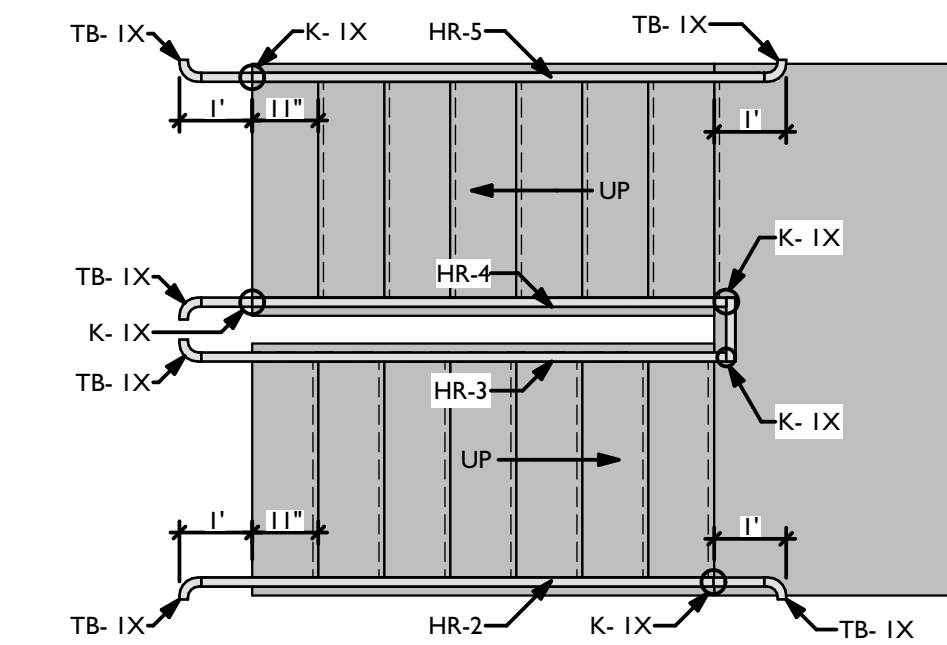
MV-6.7

EIFS DETAILS

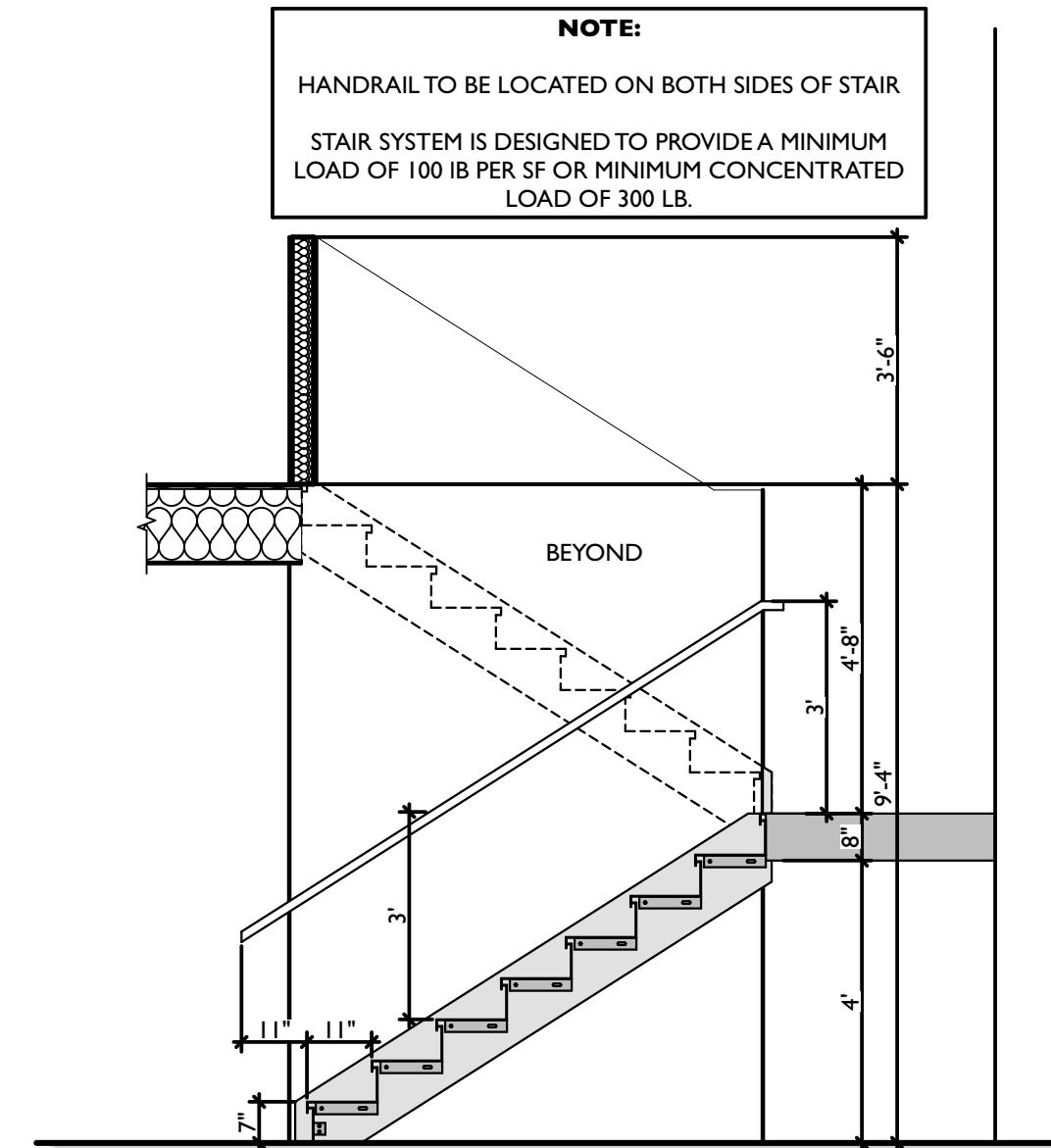
DATE OF CREATION: 09/09/21 MW JOB #: 2022-21



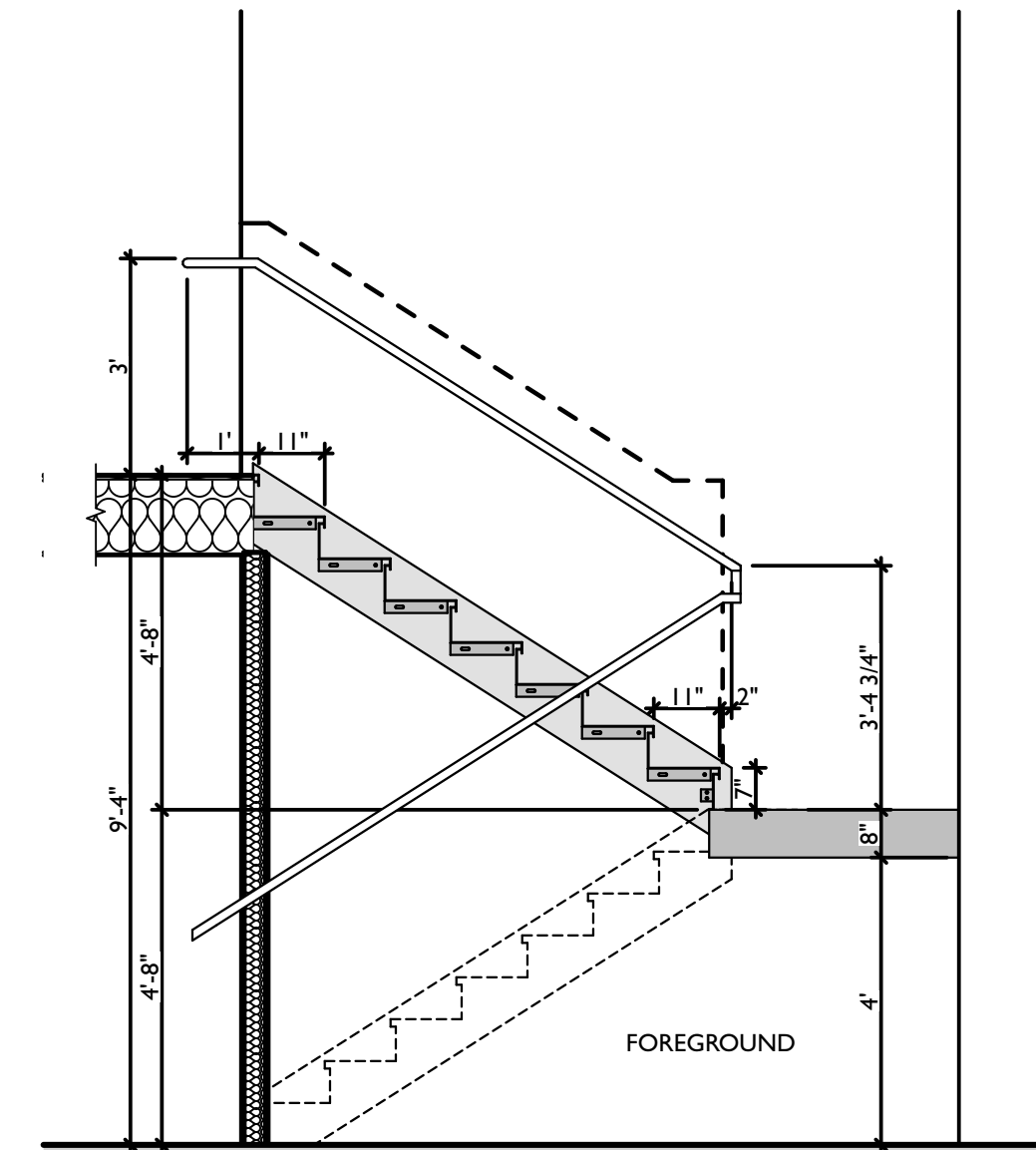
A HANDRAILS & MATERIALS
SCALE: 3/8" = 1'-0"



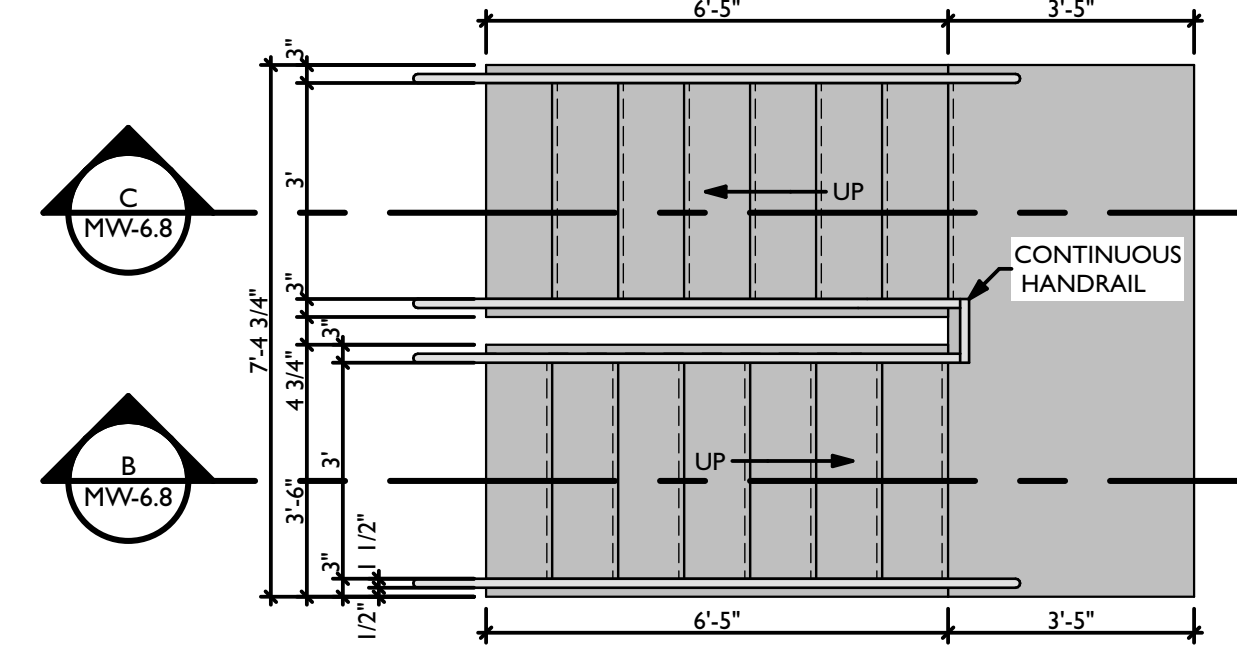
F STAIR MATERIAL PLAN
SCALE: 3/8" = 1'-0"



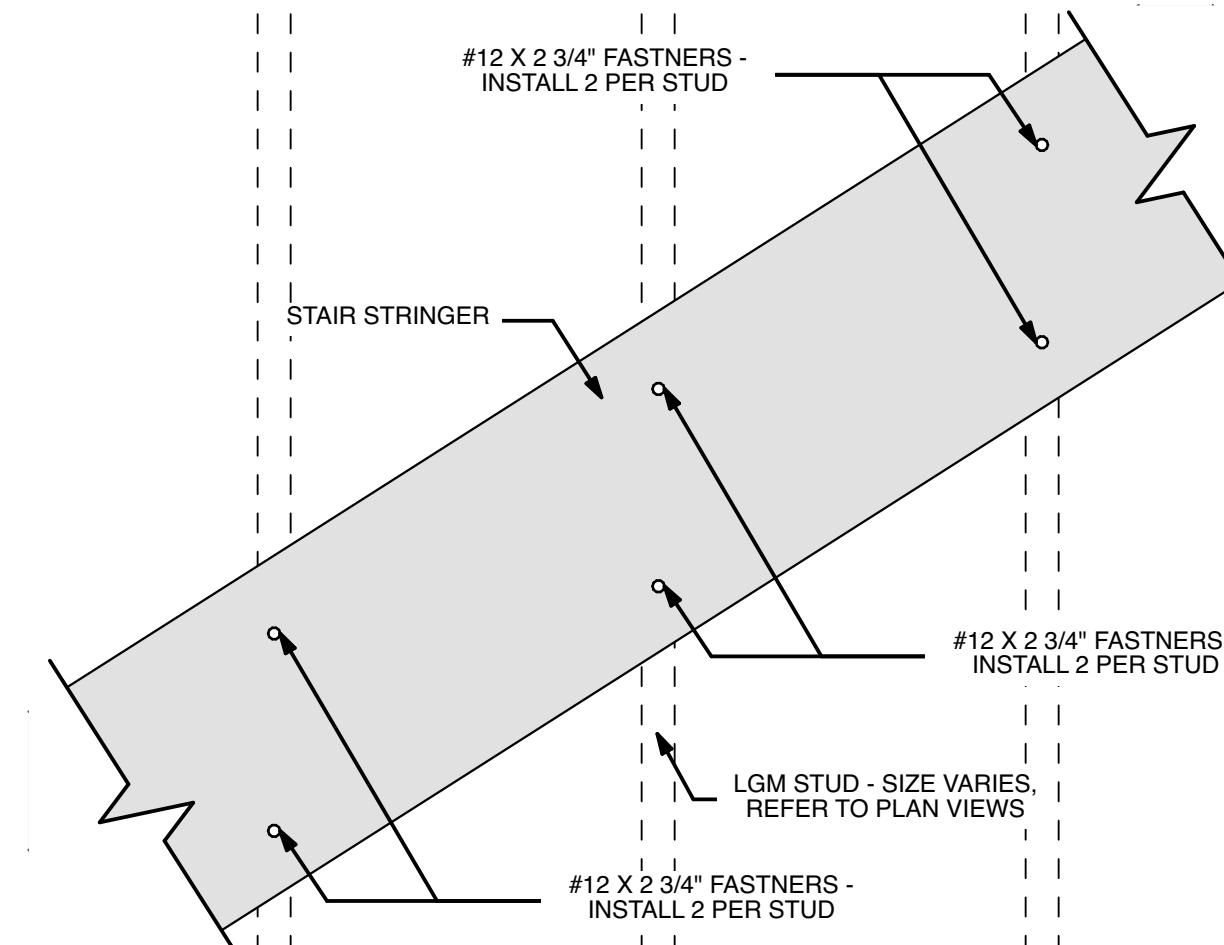
B SECTION - LOWER STAIRS
SCALE: 3/8" = 1'-0"



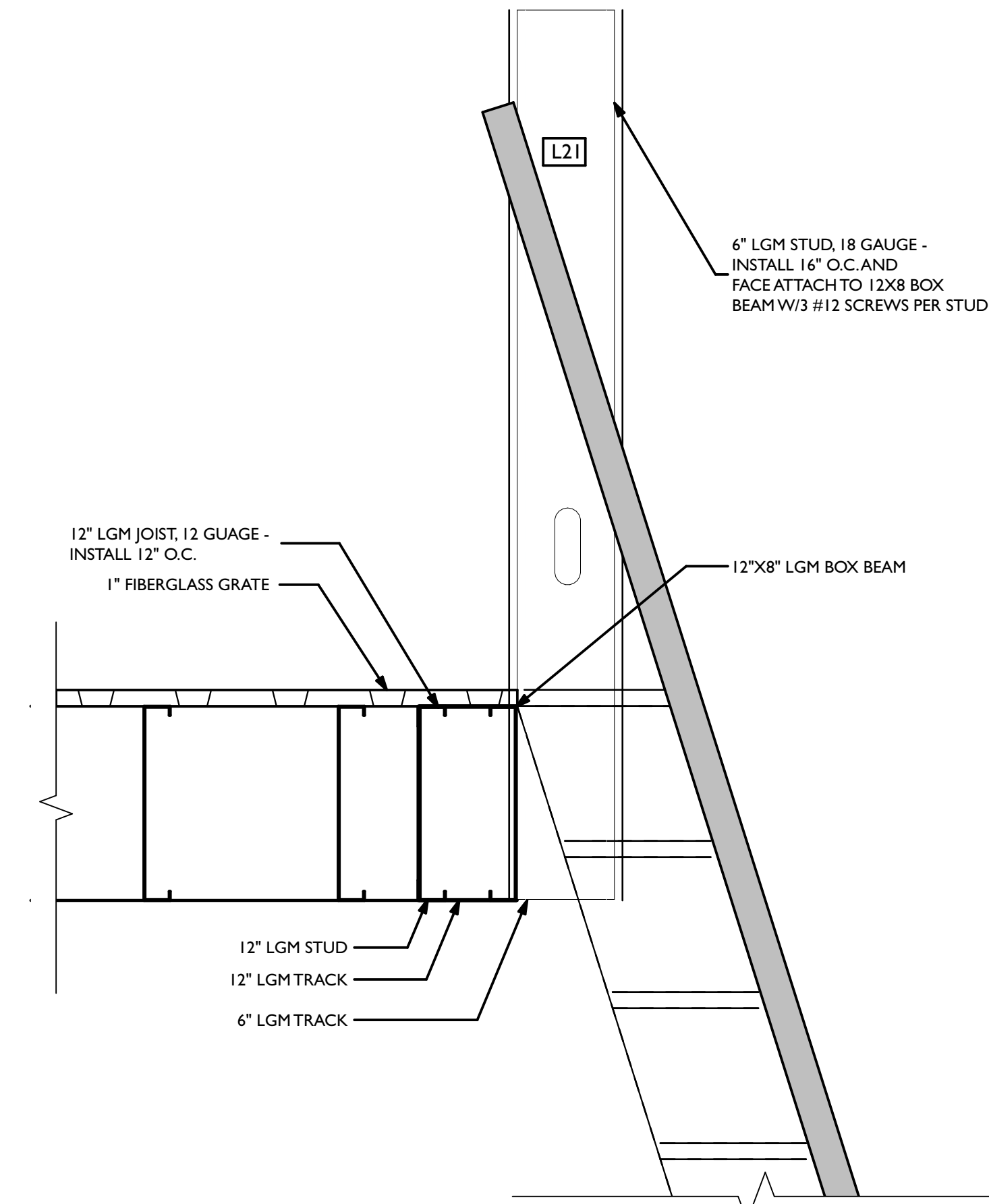
C SECTION - UPPER STAIRS
SCALE: 3/8" = 1'-0"



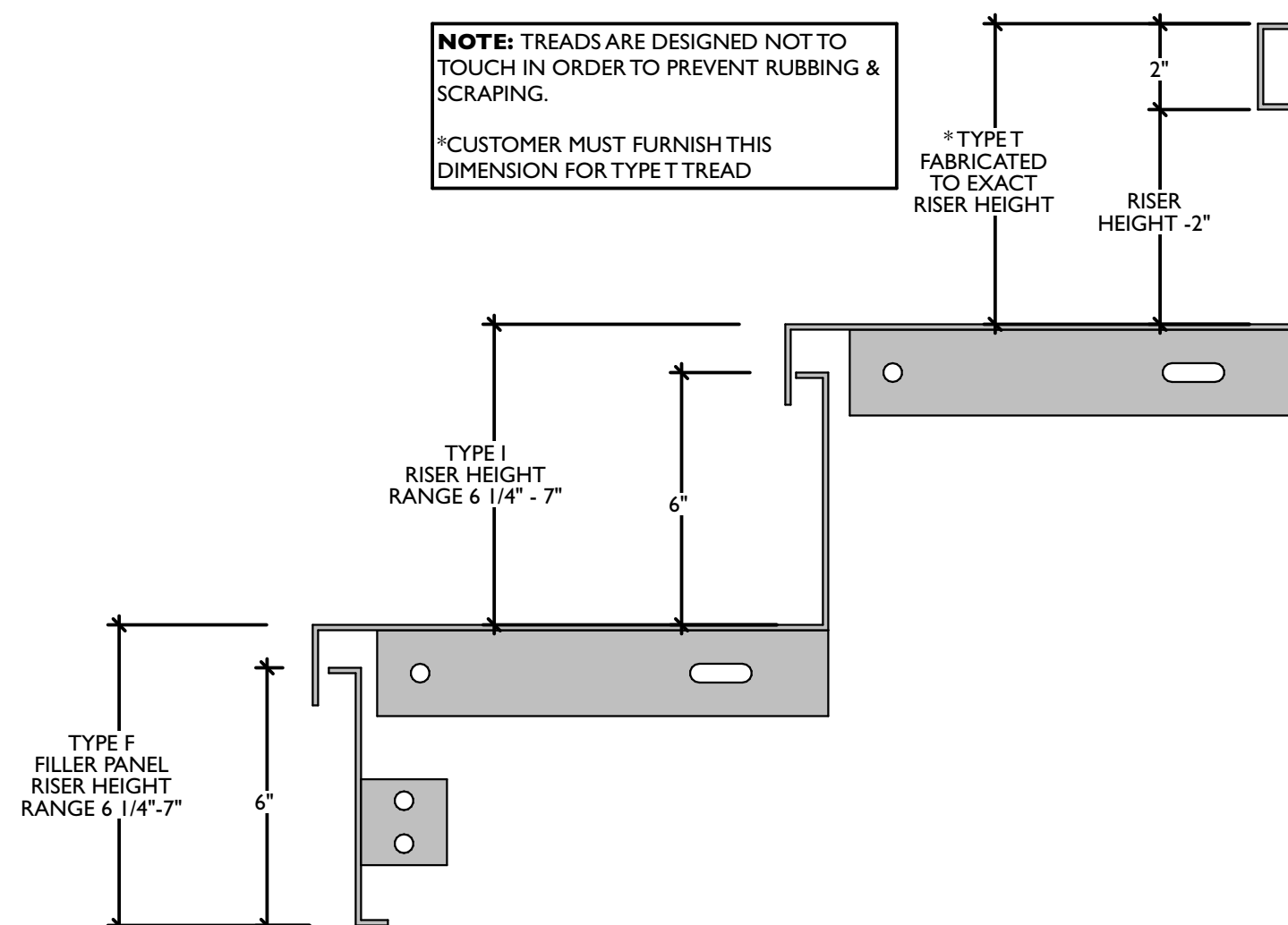
G STAIR PLAN
SCALE: 3/8" = 1'-0"



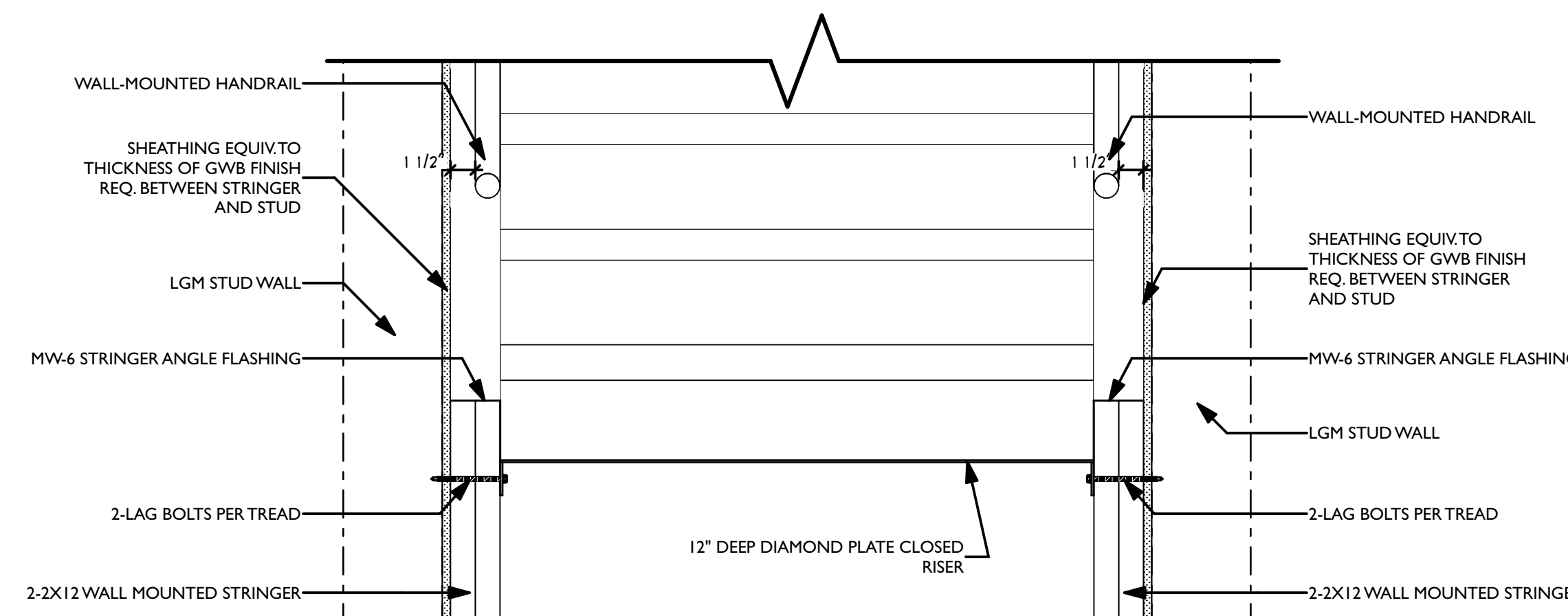
H STAIR STRINGER (TYP.)
SCALE: 1 1/2" = 1'-0"



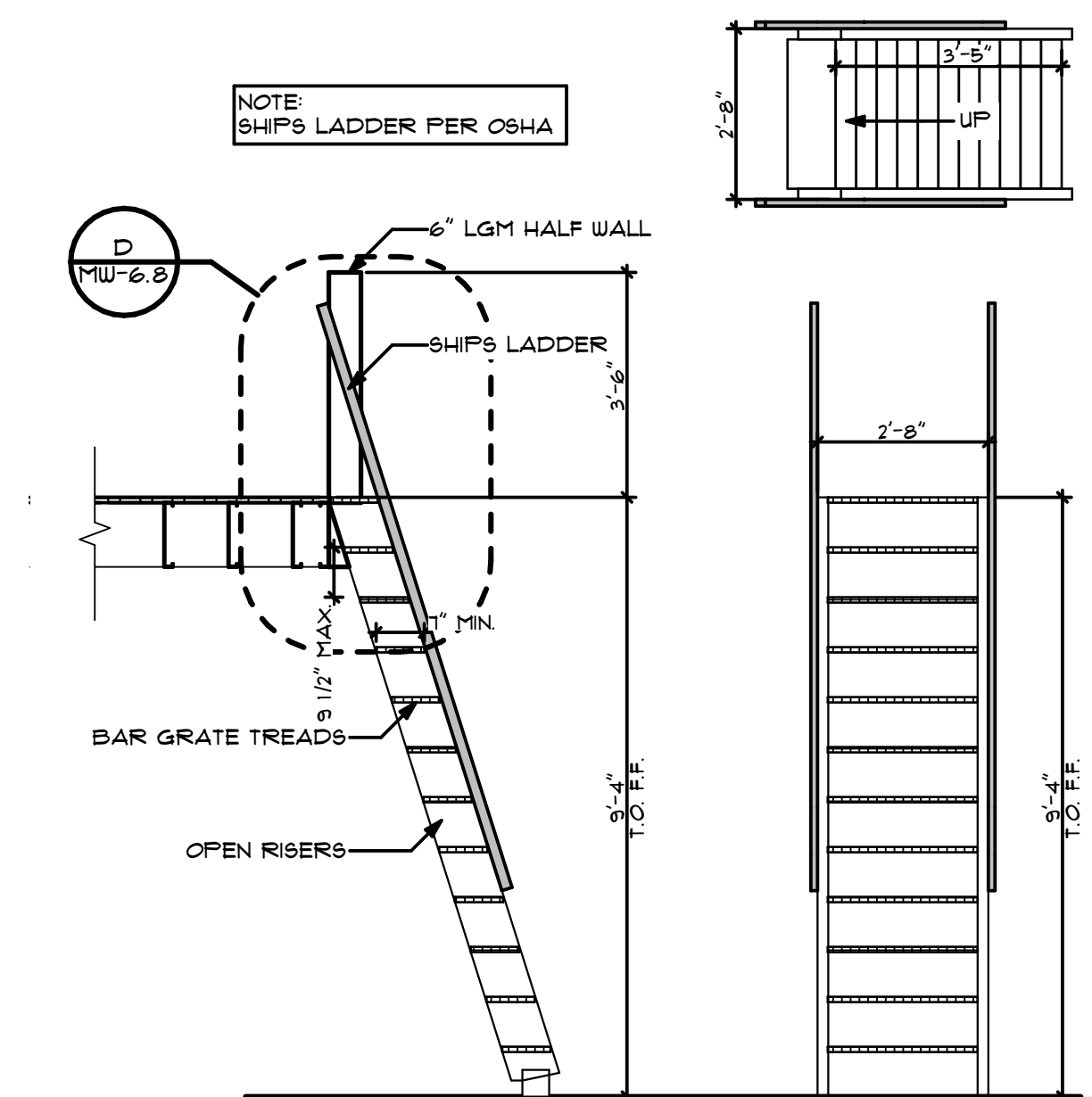
D SECTION DETAIL - HALF WALL AT SHIP'S LADDER
SCALE: 1 1/2" = 1'-0"



K SECTION DETAIL - STAIR TREAD
SCALE: 3" = 1'-0"



L SECTION DETAIL - STAIR TREAD
SCALE: 1 1/2" = 1'-0"



O SECTION - SHIP'S LADDER
SCALE: 3/8" = 1'-0"

REVISIONS		DESCRIPTION
ID	DATE	FOR PERMIT
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BOWLING GREEN, KY 42104

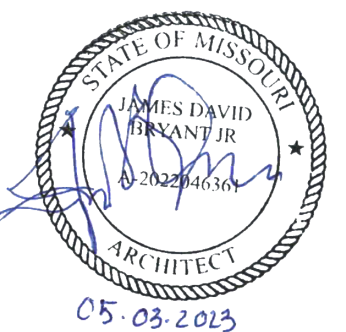
MODEL: AXIOM BETA
RETAIL TOWER
2023

27 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081

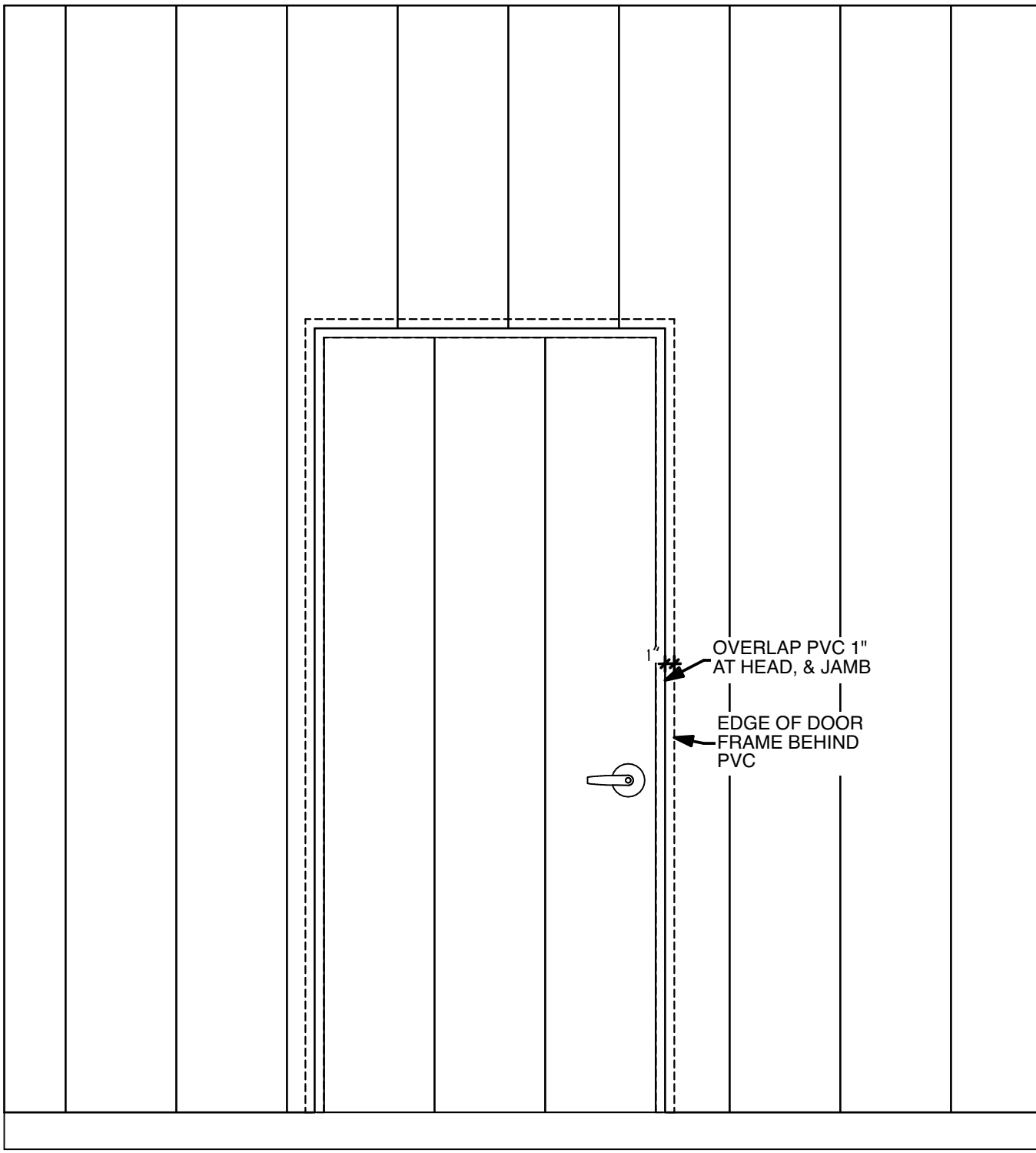


PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
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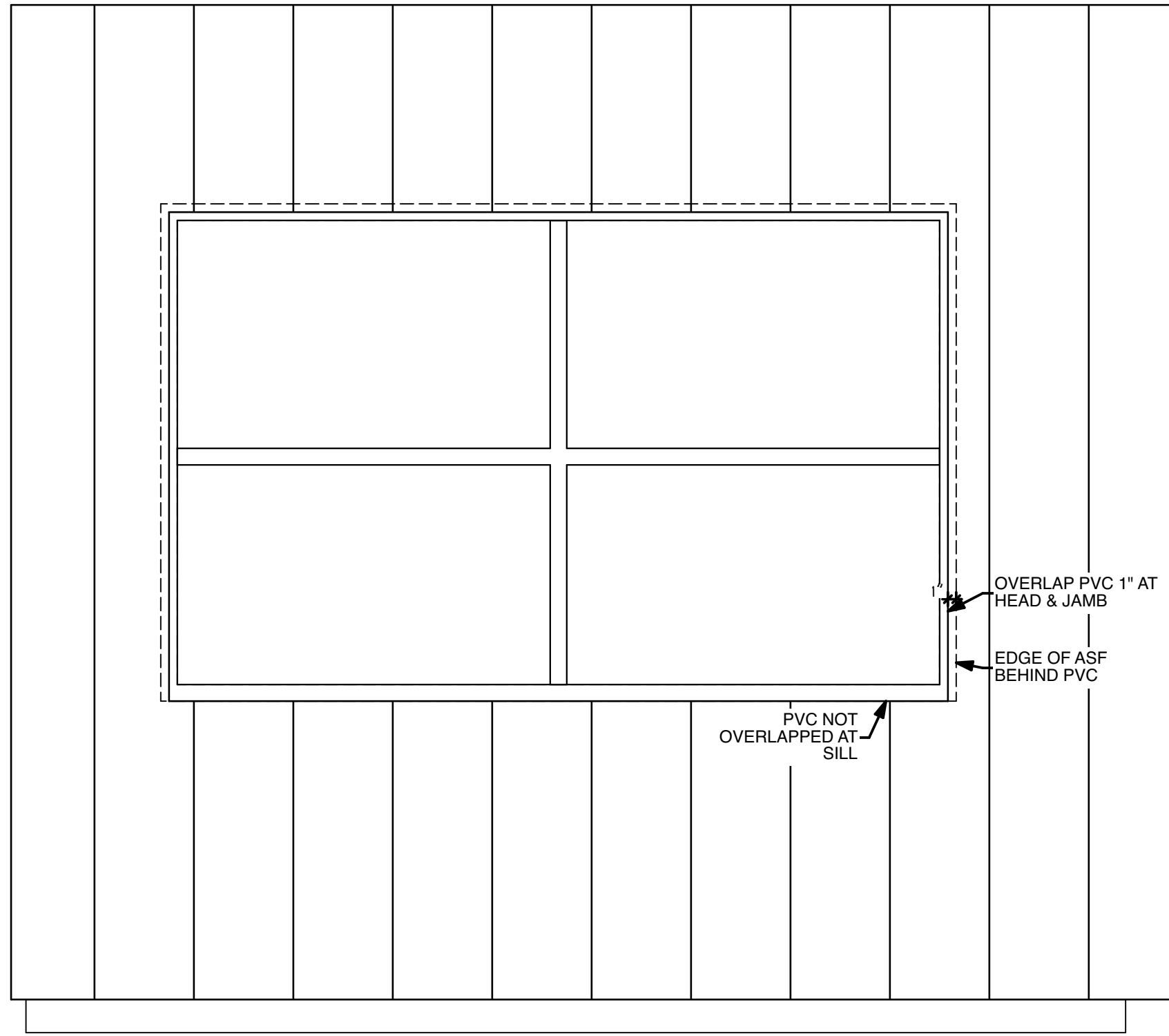
SHEET:

MV-6.8

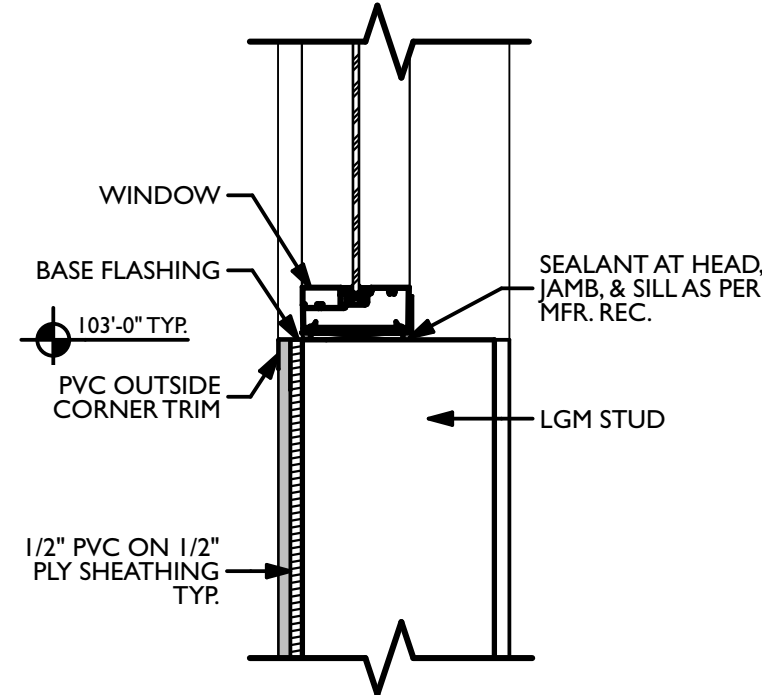
STAIR DETAILS



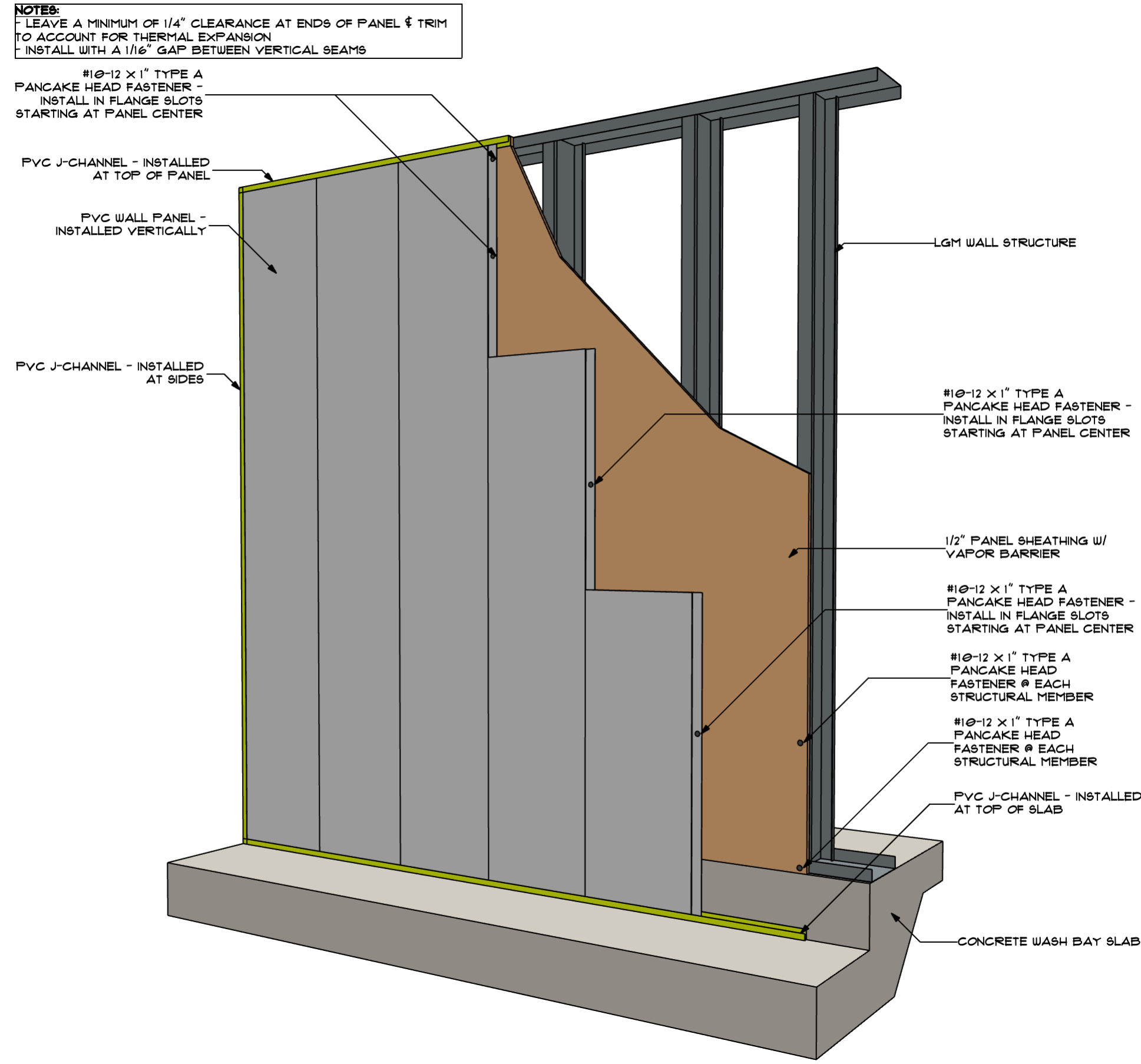
A PVC DETAIL
SCALE: 3/4" = 1'-0"



B PVC DETAIL
SCALE: 3/4" = 1'-0"



F PVC DETAIL
SCALE: 1 1/2" = 1'-0"



D PVC ASSEMBLY DETAIL
NOT TO SCALE

NOTE: DO NOT MECHANICALLY FASTEN THE PVC J-TRIM AT THE TOP OF WALL

REVISIONS		DESCRIPTION
ID	DATE	FOR PERMIT
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BOWLING GREEN, KY 42104

MODEL: AXIOM BETA
RETAIL TOWER
2023

28 OF 39

NEW CAR WASH FOR:
TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081

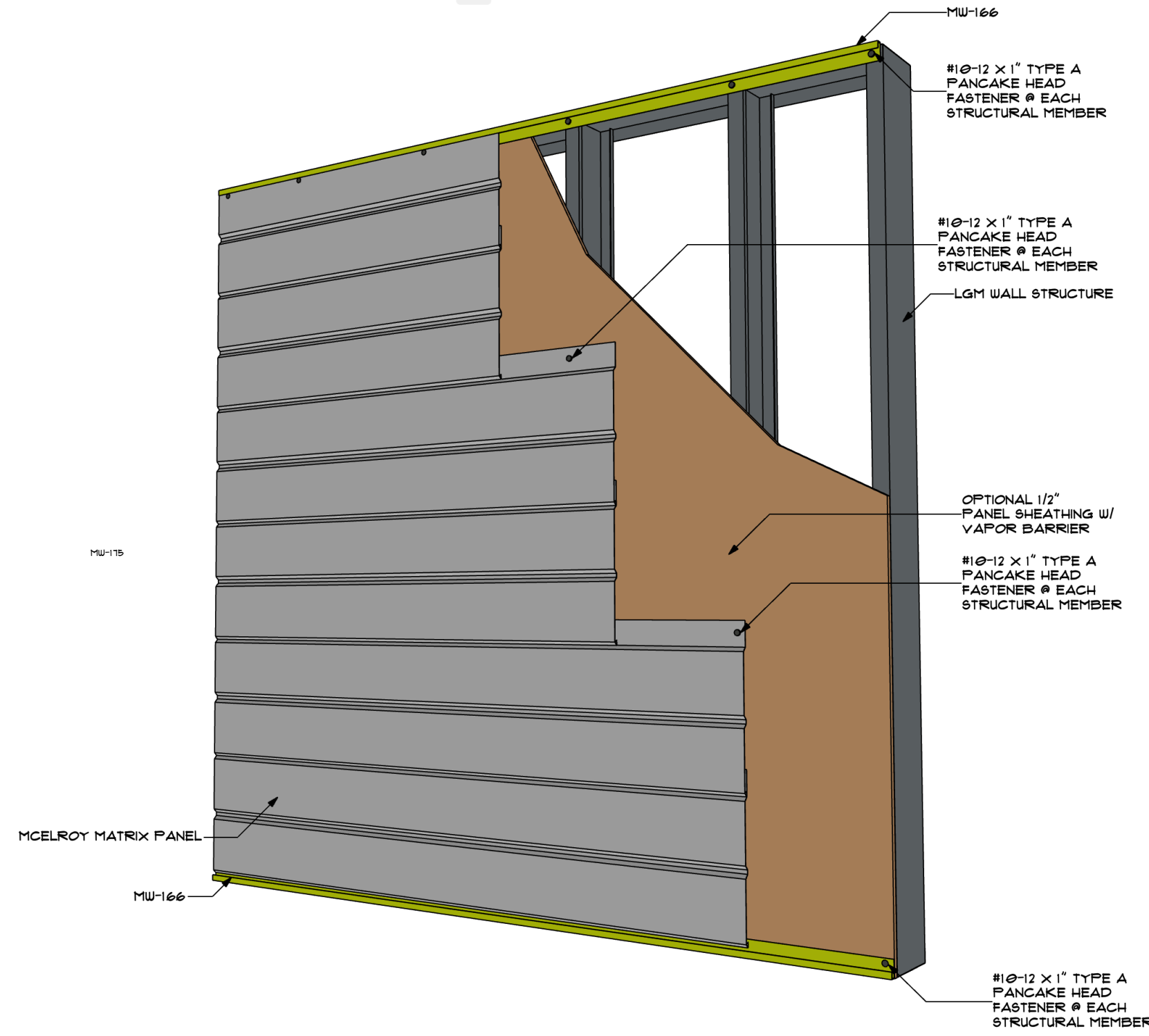


PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####

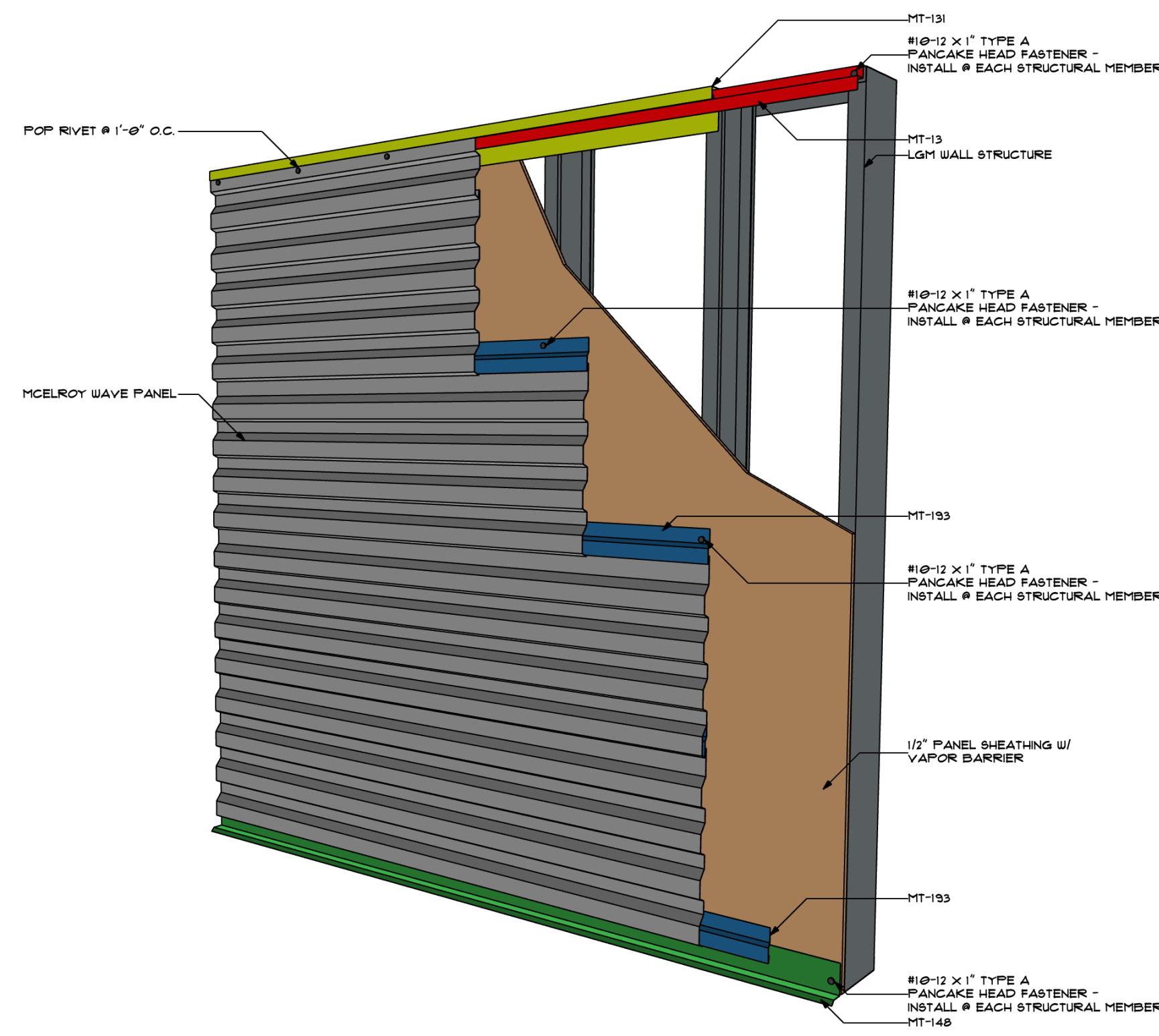
SHEET:

MV-6.9

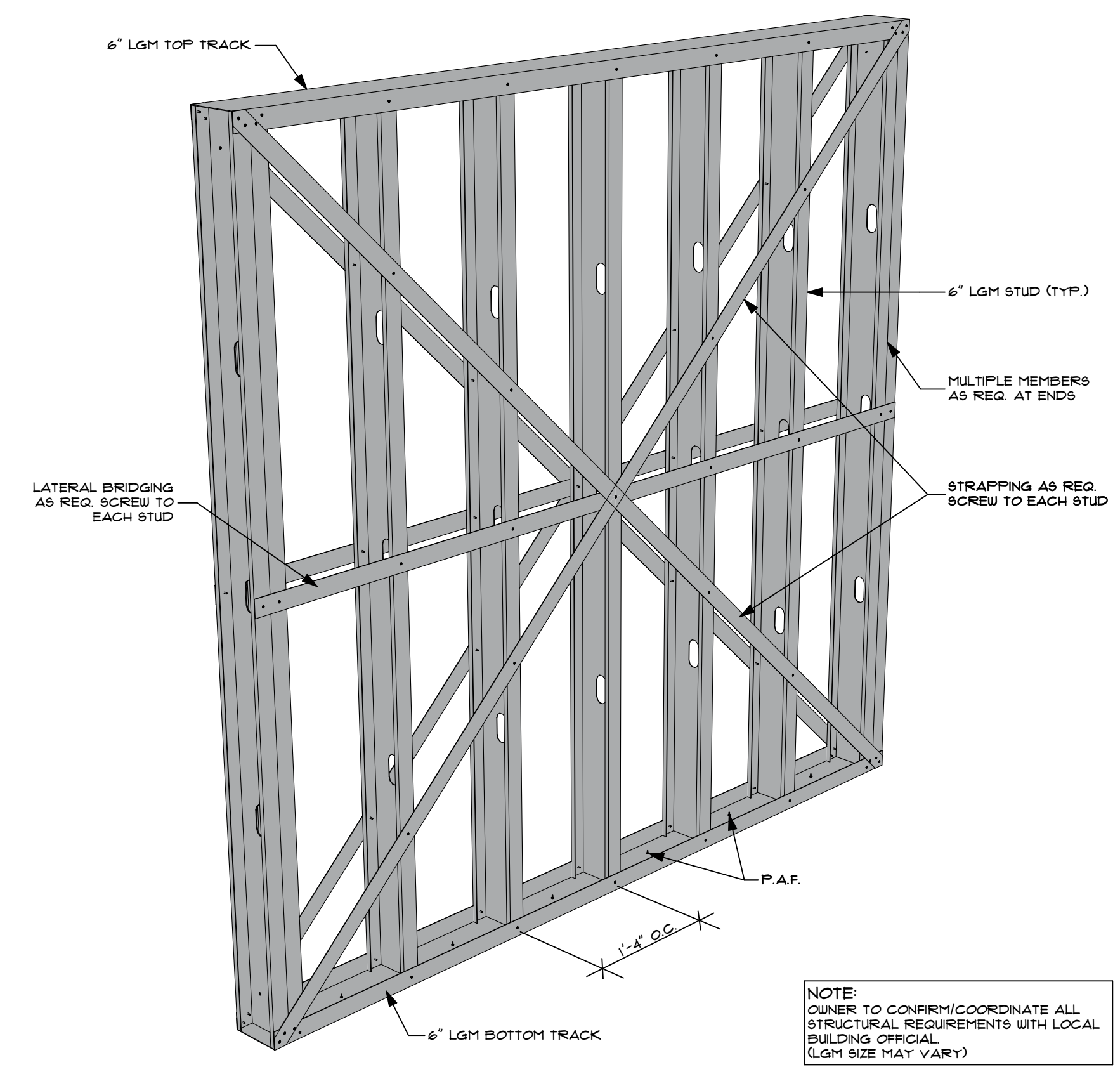
PVC DETAILS



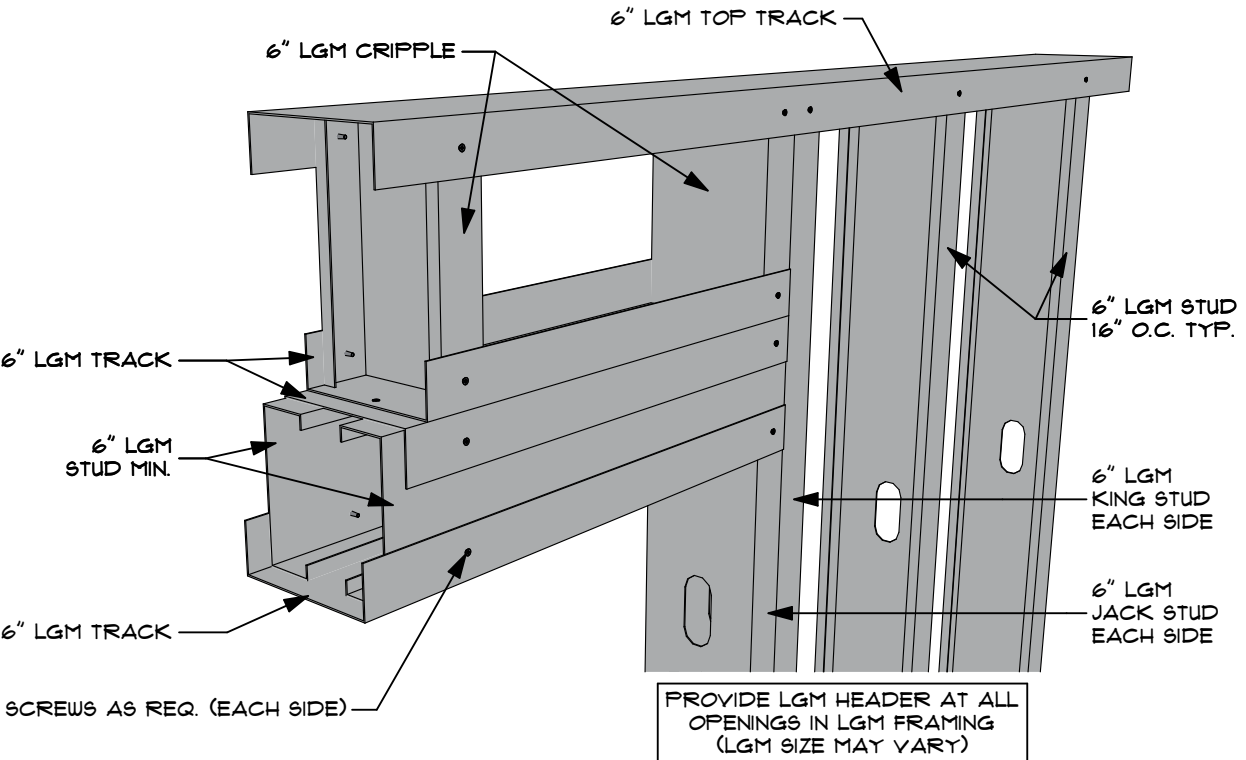
A MATRIX ASSEMBLY DETAIL
NOT TO SCALE



B WAVE ASSEMBLY DETAIL
NOT TO SCALE



D LGM FRAMING
SCALE: 1" = 1'-0"



F LGM HEADER
SCALE: 1" = 1'-0"

REVISIONS	
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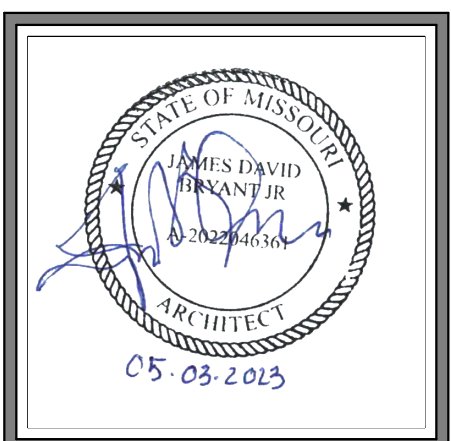
**MODEL: AXIOM BETA
RETAIL TOWER
2023**

29 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SETHOMPSON DR
LEE'S SUMMIT, MO 64081



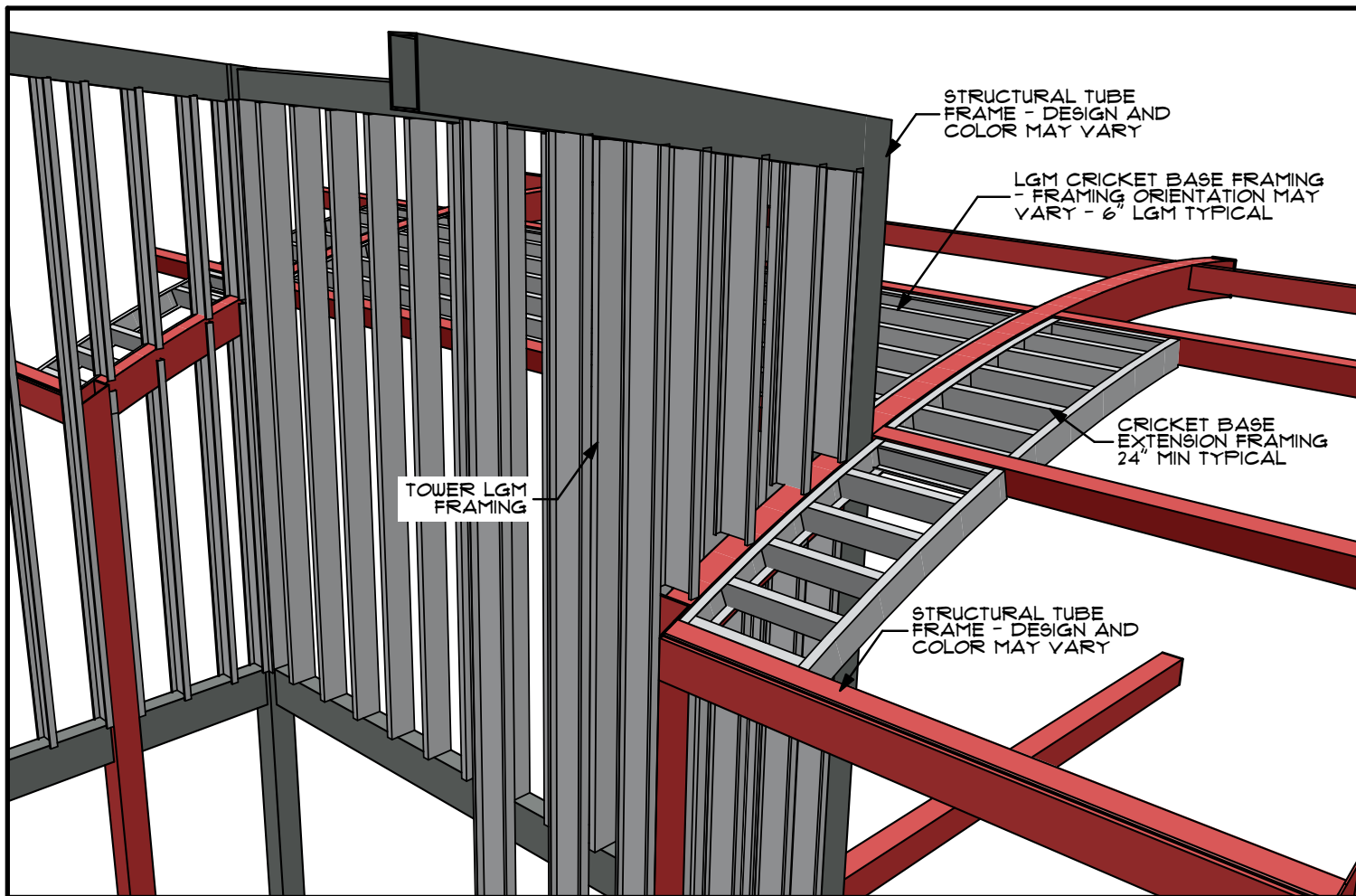
USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.

PRELIMINARY

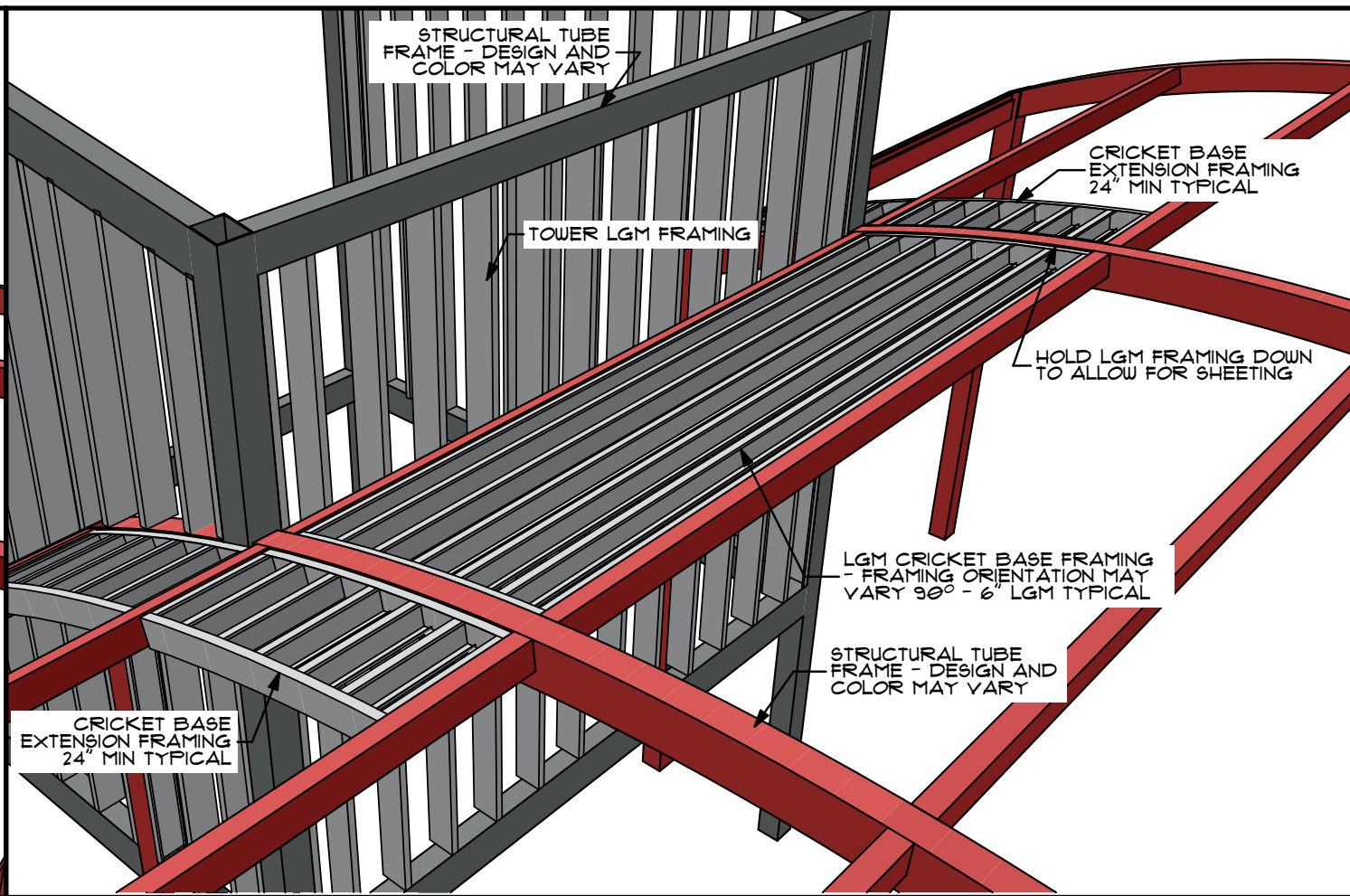
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####

SHEET:
MW-6.10

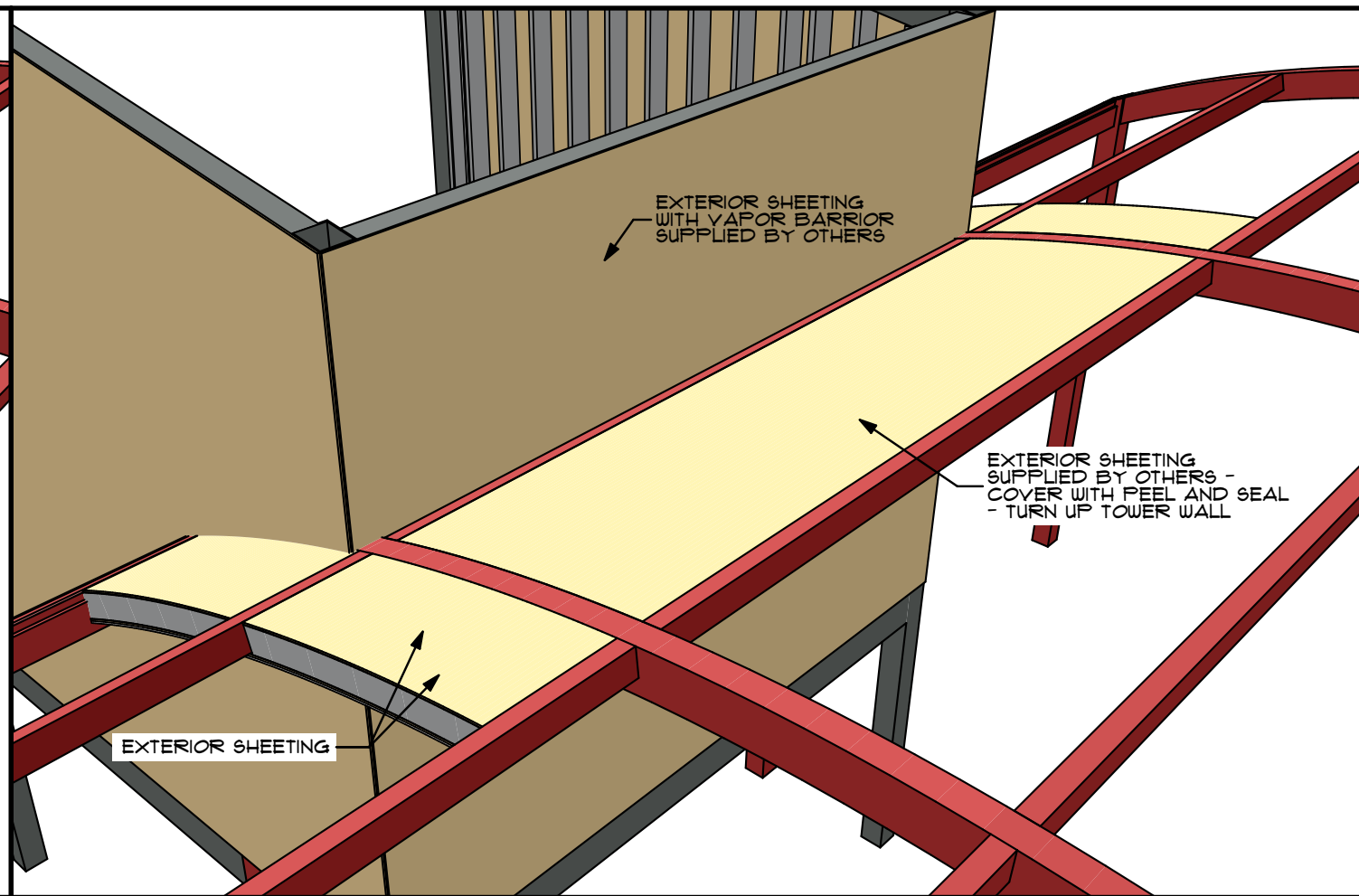
3D PVC & LGM DETAILS



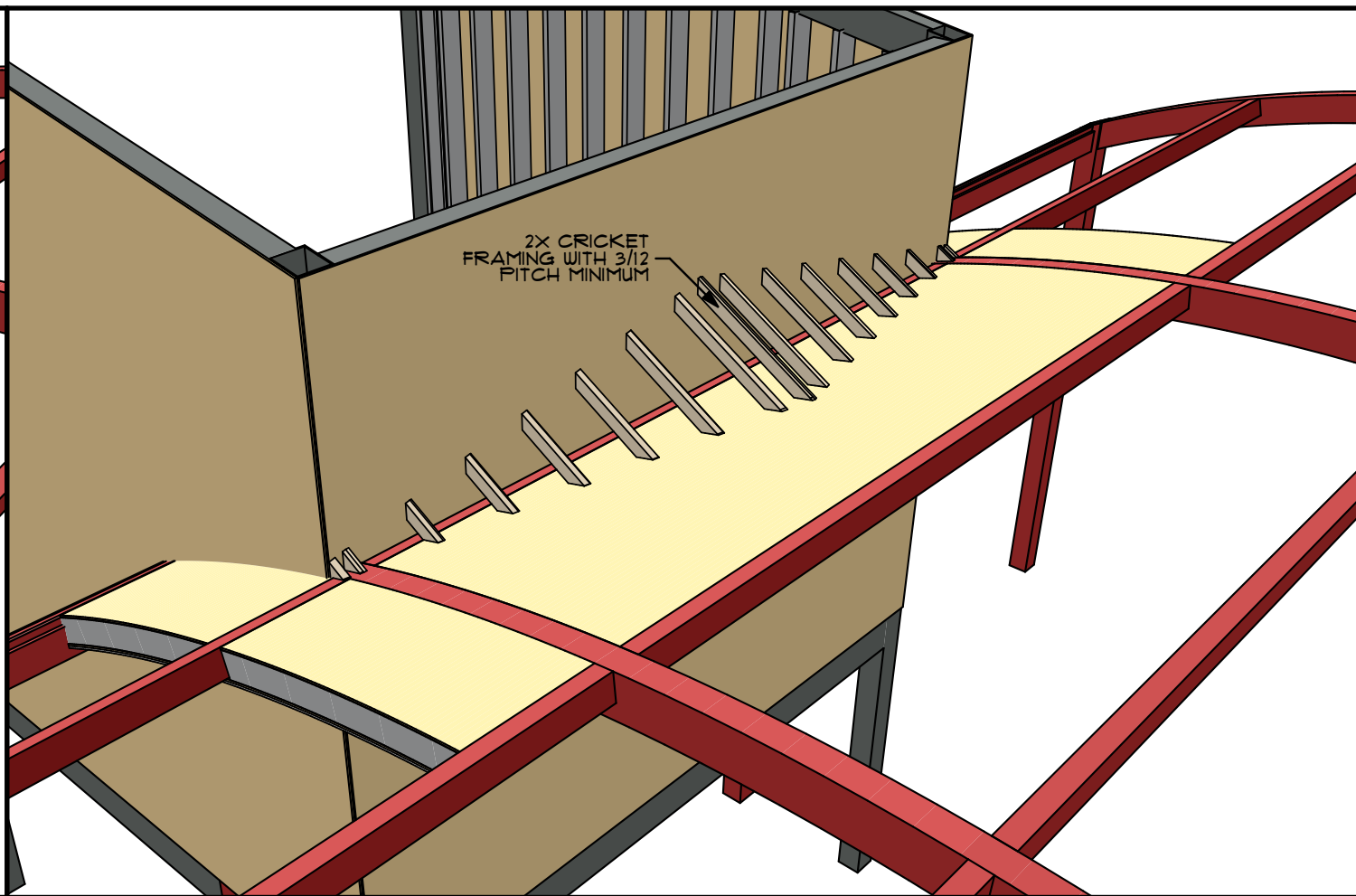
A CRICKET DETAIL - 01



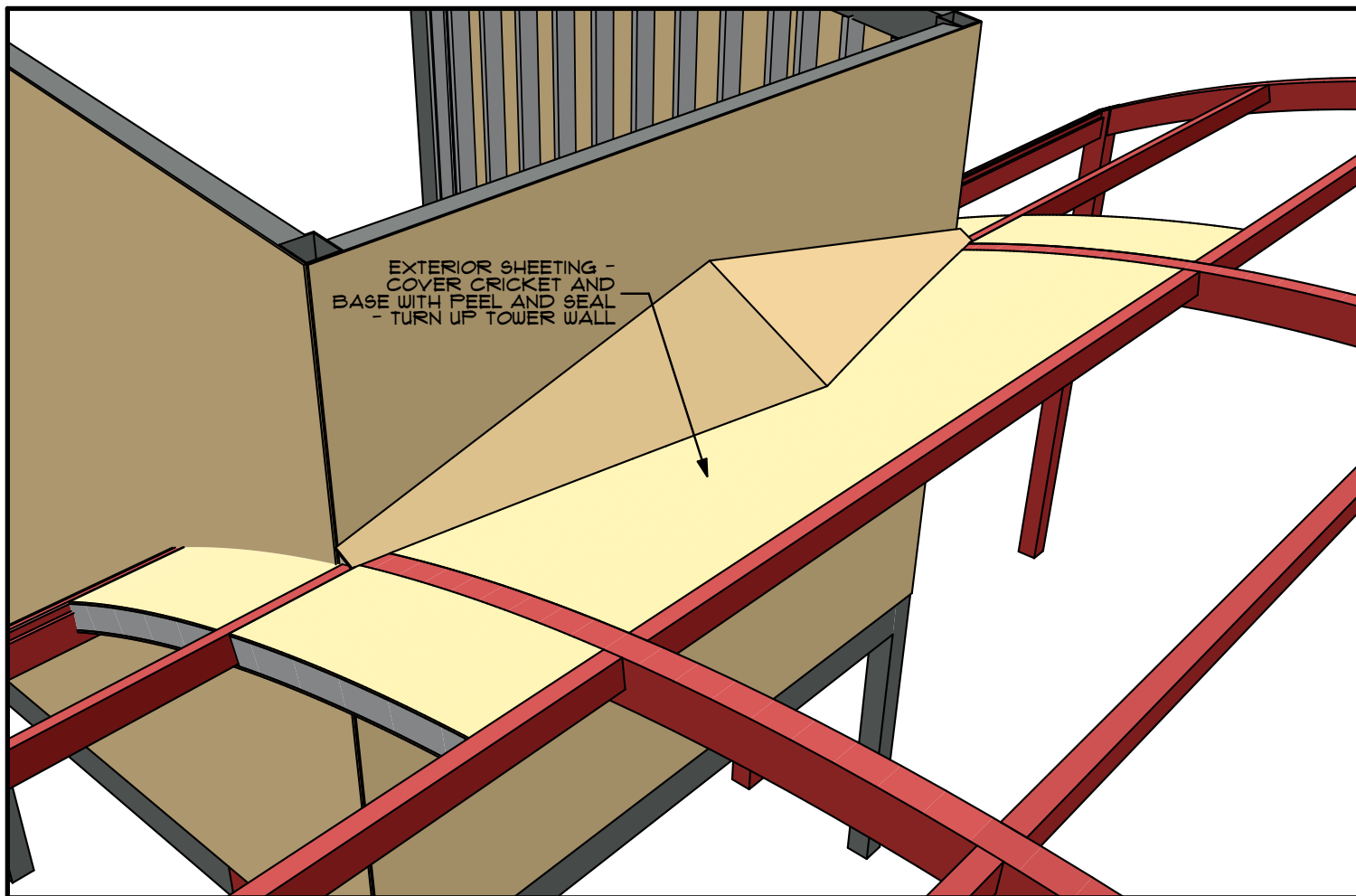
B CRICKET DETAIL - 02



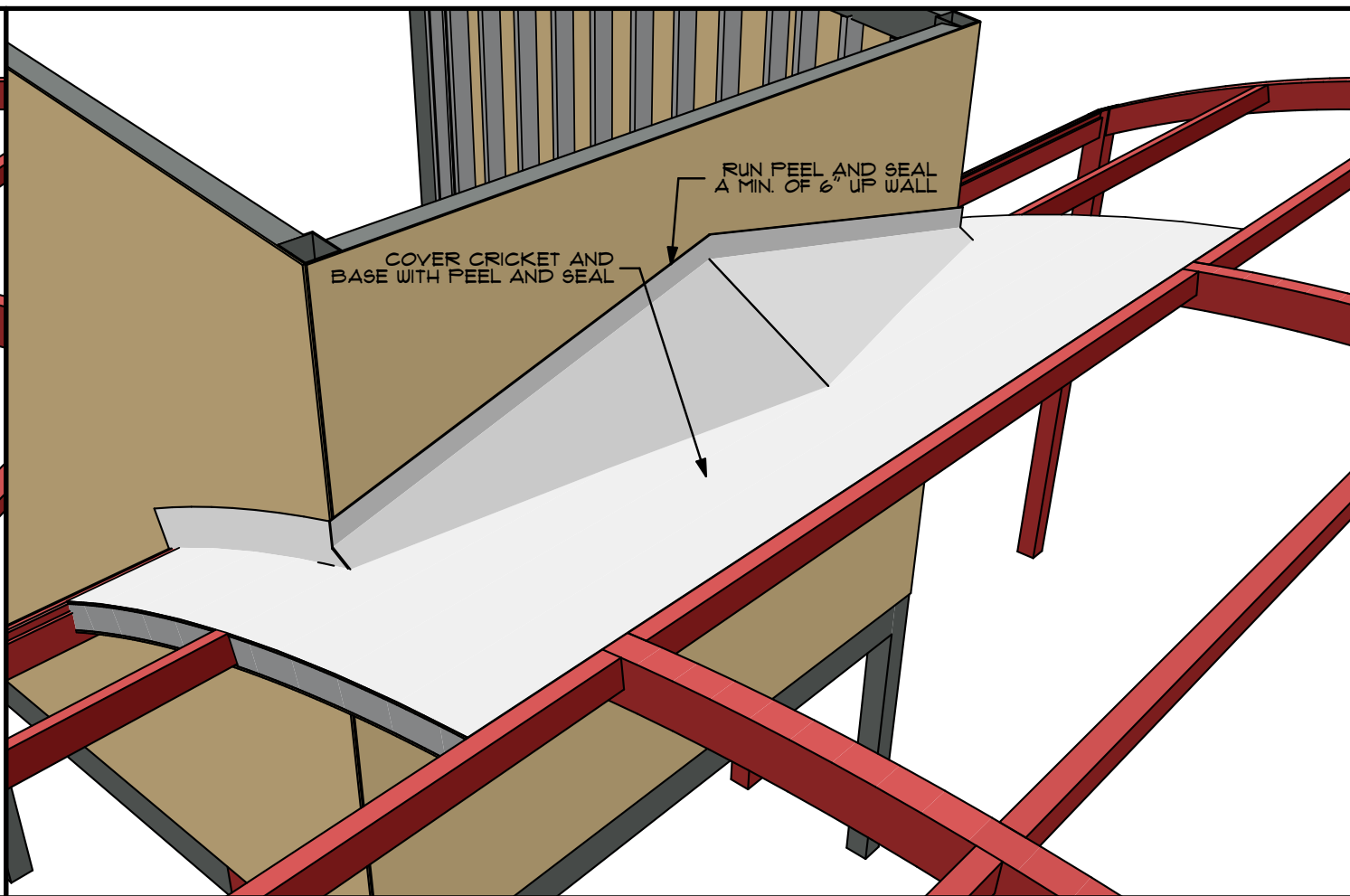
C CRICKET DETAIL - 03



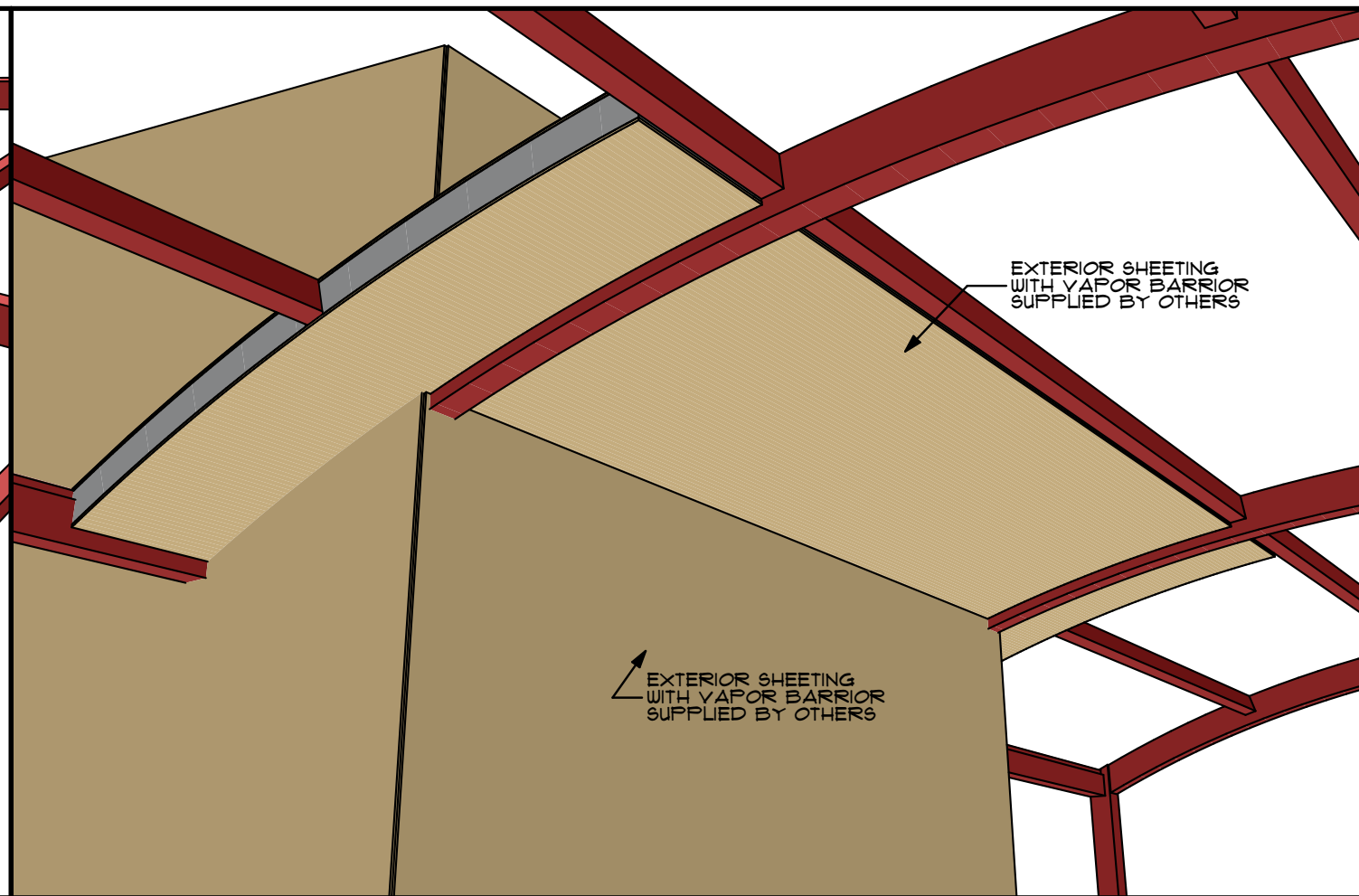
E CRICKET DETAIL - 04



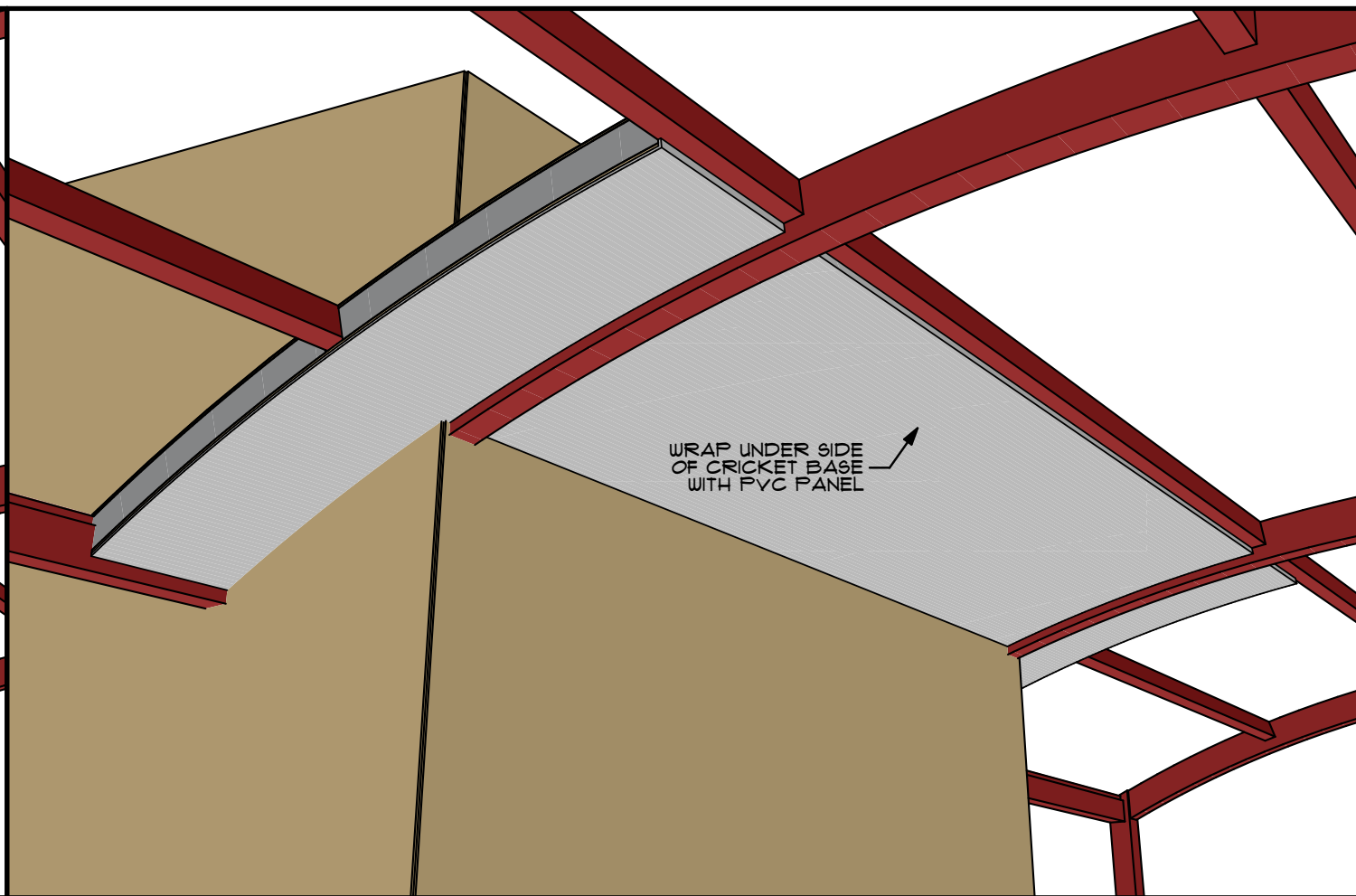
F CRICKET DETAIL - 05



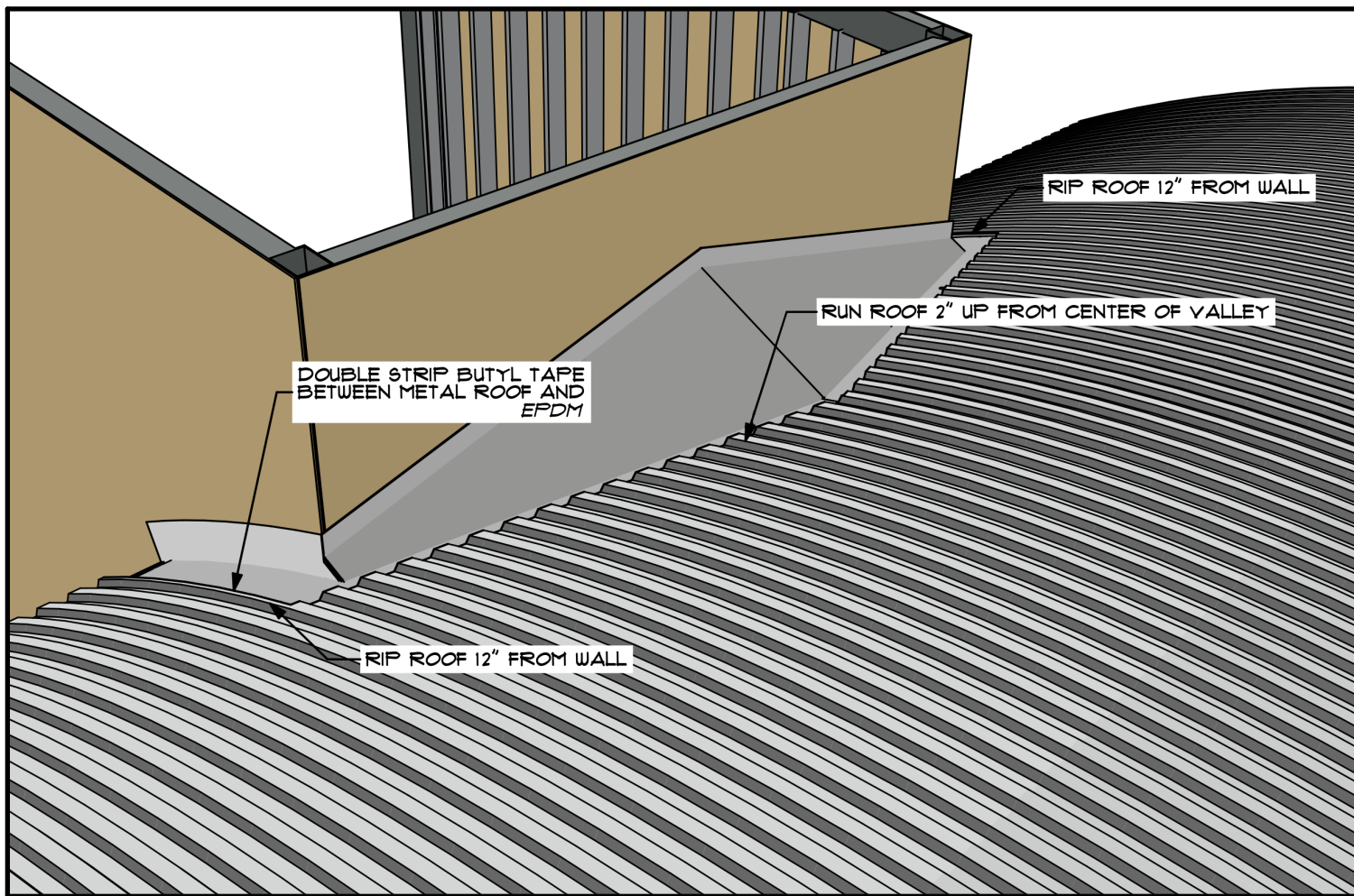
G CRICKET DETAIL - 06



H CRICKET DETAIL - 07



J CRICKET DETAIL - 08



K CRICKET DETAIL - 09

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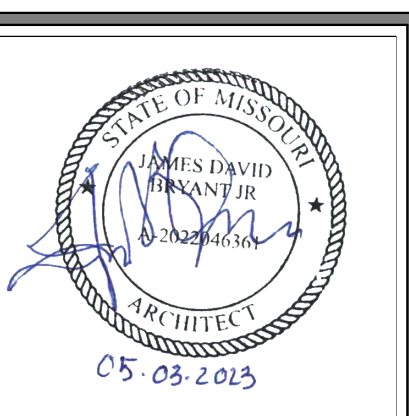
MODEL: AXIOM BETA
RETAIL TOWER
2023

30 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.



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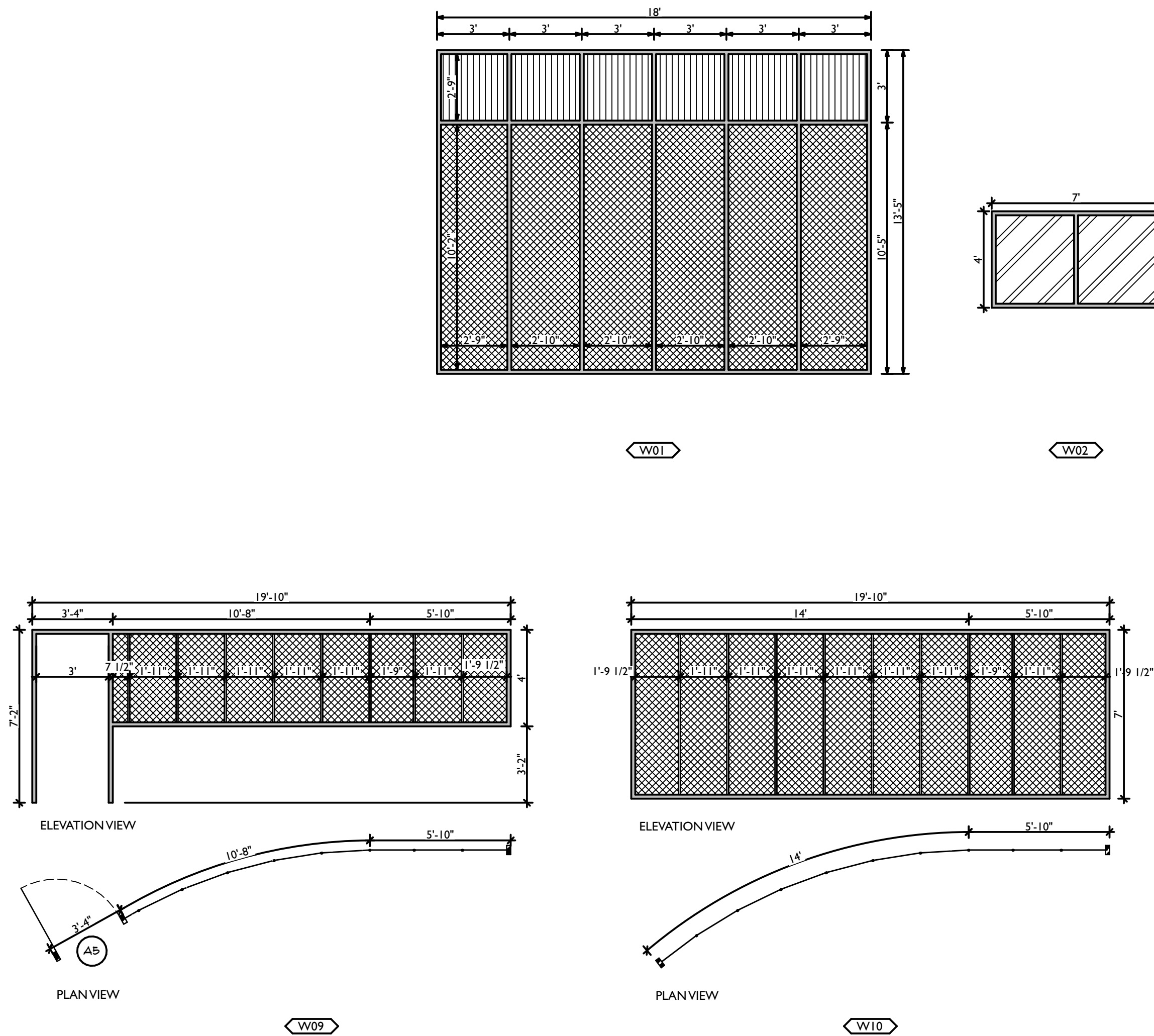
PLOT DATE: 5/3/23

DRAWN BY: EWH, CBH

CHECKED BY: #####

SHEET: MW-6.11

CRICKET DETAILS



LATCHSETS:	DOOR/WINDOW MATERIALS:	DOOR HARDWARE NOTE:	SAFETY GLAZING NOTE:
1. PASSAGE 2. ENTRY 3. STOR/JAN 4. OFFICE 5. PRIVACY 6. KEY & BOLT W/ THUMBTURN 7. PANIC DUMMY HANDLE	ALUM - ALUMINUM ASF - ALUMINUM STORE FRONT FBGS - FIBERGLASS FG - 1/4" FLOAT GLASS HM - HOLLOW METAL IFG - INSUL. 1" FLOAT GLASS PC - MULTI-WALL POLYCARBONATE PVC - POLYVINYL CHLORIDE SFG - SAFETY 1/4" FLOAT GLASS SIFG - SAFETY INSUL. 1" FLOAT GLASS SS - STAINLESS STEEL STL - STEEL WD - WOOD	DOORS SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY, OR SPECIAL KNOWLEDGE OR EFFORT. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATION DEVICES SHALL BE ACCESSIBLE AND NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. ALL EGRESS AND PEDESTRIAN DOORS SHALL COMPLY WITH ICC - ANSI 117.1 (CURRENT EDITION).	THE FOLLOWING CONDITIONS REQUIRE TEMPERED SAFETY GLAZING: 1. GLAZING IN DOORS 2. GLAZING WITH THE BOTTOM EDGE LESS THAN 18" ABOVE THR FLOOR. 3. GLAZING ADJACENT & WITHIN 24" OF A DOOR & LESS THAN 60" ABOVE STANDING SURFACE.

DOOR SCHEDULE												
ID	#	DOOR						HW SET	FRAME			NOTES
		PANEL TYPE	W	HT	THK	MATL	GLZ		WDTH	THK	MATL	
A1	1	FULL GLASS	3'	7'	1 3/4"	ALUM	TEMP	2	2"	4 1/2"	ALUM	SUPPLIED BY OTHERS
A2	1	FULL GLASS	3'	7'	1 3/4"	ALUM	TEMP	2	2"	4 1/2"	ALUM	SUPPLIED BY OTHERS
A3	1	FULL GLASS	3'	7'	1 3/4"	ALUM	TEMP	2	2"	4 1/2"	ALUM	SUPPLIED BY OTHERS
A4	1	FULL GLASS	3'	7'	1 3/4"	ALUM	TEMP	2	2"	4 1/2"	ALUM	SUPPLIED BY OTHERS
A5	1	FULL GLASS	3'	7'	1 3/4"	ALUM	TEMP	2	2"	4 1/2"	ALUM	SUPPLIED BY OTHERS
A6	1	FULL GLASS	3'	7'	1 3/4"	ALUM	TEMP	2	2"	4 1/2"	ALUM	SUPPLIED BY OTHERS
B1	1	DOUBLE FLUSH	6'	7'	1 3/4"	SS	---	2	2"	4 1/2"	SS	PROVIDED BY MODERNWASH
B2	1	DOUBLE FLUSH	6'	7'	1 3/4"	HM	---	2	2"	4 1/2"	HM	SUPPLIED BY OTHERS
C1	1	FLUSH	3'	7'	1 3/4"	HM	---	2	2"	4 1/2"	HM	SUPPLIED BY OTHERS
C2	1	FLUSH	3'	7'	1 3/4"	SS	---	2	2"	4 1/2"	SS	PROVIDED BY MODERNWASH
C3	1	FLUSH	3'	7'	1 3/4"	SS	---	2	2"	4 1/2"	SS	PROVIDED BY MODERNWASH
D1	1	OVERHEAD	12'	11'-2"	1 3/4"	ALUM	POLY	---	3"	4"	STL	SUPPLIED BY OTHERS
D2	1	OVERHEAD	12'	11'-2"	1 3/4"	ALUM	POLY	---	3"	4"	STL	SUPPLIED BY OTHERS

DOOR						
TYPE	DOUBLE FLUSH	DOUBLE FLUSH	FLUSH	FLUSH	FULL GLASS	OVERHEAD
VIEW						
DIMS	6'x7'	6'x7'	3'x7'	3'x7'	3'x7'	12'x11'-2"
MATERIAL	HM	SS	HM	SS	ALUM	ALUM
GLAZING	---	---	---	---	TEMP	POLY

WINDOW SCHEDULE				
ID	#	LENGTH	HEIGHT	HOME STORY
W01	6	216.00"	161.20"	1st FLOOR
W02	1	84.00"	48.00"	1st FLOOR
W03	1	60.00"	99.00"	1st FLOOR
W04	1	60.00"	99.00"	2nd FLOOR
W04	2	48.00"	48.00"	1st FLOOR
W05	1	65.55"	96.78"	1st FLOOR
W06	1	65.55"	96.78"	1st FLOOR
W07	1	65.00"	102.00"	1st FLOOR
W08	1	59.02"	102.00"	1st FLOOR
W09	1	NOTE: SEE WINDOW ELEVATIONS FOR JAMBS, HEAD, AND SILL FRAME DIMENSIONS.		1st FLOOR
W10	1	NOTE: SEE WINDOW ELEVATIONS FOR JAMBS, HEAD, AND SILL FRAME DIMENSIONS.		2nd FLOOR
W11	1	308.00"	237.50"	1st FLOOR
W12	2	308.00"	237.50"	1st FLOOR

ACM PNL w/ PVC BACKER	10MM LEXAN THERMOCLEAR GLAZING PNL
1/4" TEMPERED GLASS	INSULATED GLASS

NOTE: STOREFRONT SUPPLIER TO CONFIRM ALL OPENINGS ON SITE.
ACM PANEL WITH PVC BACKER IS SUPPLIED BY MODERNWASH - CUT TO FIT ON SITE.
POLYCARBONATE PANEL TO BE SUPPLIED BY MODERNWASH - CUT TO FIT ON SITE.

REVISIONS		DATE	DESCRIPTION
ID	0	05/03/2023	FOR PERMIT

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5220 SCOTTSDALE ROAD
BOWLING GREEN, KY 42104

**MODEL: AXIOM BETA
RETAIL TOWER
2023**

31 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
JAMES DAVID
ARCHITECT
05-03-2023

USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.

PRELIMINARY
PLOT DATE: 5/3/23
DRAWN BY: EWH, CBH
CHECKED BY: #####
SHEET: MW-7.1
SCHEDULES

Product category: S137 (1-3/8" Flange Structural Stud)
Product name: 3025317-43 (33ksi, CP60) P - Punched
43mils (18ga) Coating: CP60 per ASTM C955
Color coding: Yellow

Geometric Properties
Web depth 3.625 in
Flange width 1.375 in
Stiffening lip 0.375 in
Design thickness 0.0451 in
Yield strength, Fy 33 ksi
Ultimate, Fu 45.0 ksi

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A) 0.306 in²
Member weight per foot of length 1.04 lbf/ft
Moment of inertia (Ix) 0.616 in⁴
Section modulus (Sx) 0.340 in³
Radius of gyration (Rx) 1.419 in
Gross moment of inertia (Iy) 0.075 in⁴
Gross radius of gyration (Ry) 0.497 in

Effective Section Properties, Strong Axis

Effective Area (Ae) 0.214 in²
Moment of inertia for deflection (Ix) 0.616 in⁴
Section modulus (Sx) 0.320 in³
Allowable bending moment (Ma) 22.50 in-k
Allowable moment based on distortion buckling (Mad) 6.66 in-k
Allowable shear force in web (solid section) 1739 lb
Allowable shear force in web (perforated section) 676 lb
Unbraced length (Lu) 34.6 in

Torsional Properties

St. Venant torsion constant (J x 1000) 0.207 in⁴
Warping constant (Cw) 0.320 in⁶
Distance from shear center to neutral axis (Xo) -0.693 in
Distance between shear center and web centerline (m) 0.608 in
Radii of gyration (Ro) 1.801 in
Torsional flexural constant (Beta) 0.697

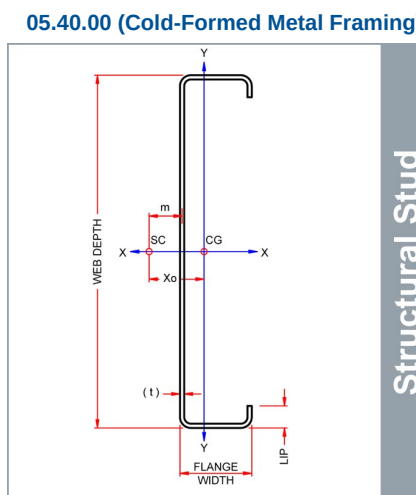
ASTM & Code Standards:

- AISI North American Specification (NASPEC) S100-07 with 2010 supplement
- Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCR6-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at www.clarkdietrich.com

Sustainability Credits:

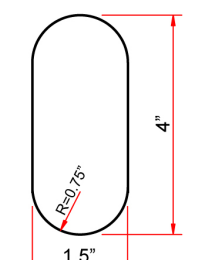
For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED
LEED v4 MR Credit - Building Product Disclosure and Optimization: EPD (up to 2 points) - Innovation Credit (up to 2 points)
LEED 2009 Credit MR 2 & MR 4 - ClarkDietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at info@clarkdietrich.com (888-437-3244)

CD-STRS © 06/2014 ClarkDietrich Building Systems			
Project Information	Contractor Information	Architect Information	
Name: Address:	Name: Contact: Phone: Fax:	Name: Contact: Phone: Fax:	



Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



Structural Punchout

East market punchout spacing: 12" from lead end then 24" o.c.

West market punchout spacing: 24" from lead end then 24" o.c.

Product category: S137 (1-3/8" Flange Structural Stud)
Product name: 6005317-43 (33ksi, CP60) P - Punched
43mils (18ga) Coating: CP60 per ASTM C955
Color coding: Yellow

Geometric Properties
Web depth 6.000 in
Flange width 1.375 in
Stiffening lip 0.375 in
Design thickness 0.0451 in
Yield strength, Fy 33 ksi
Ultimate, Fu 45.0 ksi

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A) 0.413 in²
Member weight per foot of length 1.41 lbf/ft
Moment of inertia (Ix) 2.042 in⁴
Section modulus (Sx) 0.681 in³
Radius of gyration (Rx) 2.224 in
Gross moment of inertia (Iy) 0.087 in⁴
Gross radius of gyration (Ry) 0.459 in

Effective Section Properties, Strong Axis

Effective Area (Ae) 0.222 in²
Moment of inertia for deflection (Ix) 2.041 in⁴
Section modulus (Sx) 0.645 in³
Allowable bending moment (Ma) 12.74 in-k
Allowable moment based on distortion buckling (Mad) 11.83 in-k
Allowable shear force in web (solid section) 1416 lb
Allowable shear force in web (perforated section) 1240 lb
Unbraced length (Lu) 33.3 in

Torsional Properties

St. Venant torsion constant (J x 1000) 0.280 in⁴
Warping constant (Cw) 1.214 in⁶
Distance from shear center to neutral axis (Xo) -0.693 in
Distance between shear center and web centerline (m) 0.513 in
Radii of gyration (Ro) 2.406 in
Torsional flexural constant (Beta) 0.890

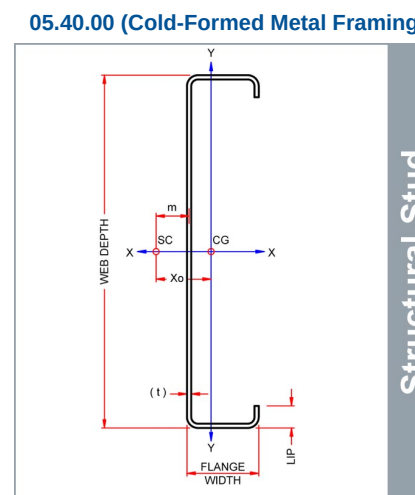
ASTM & Code Standards:

- AISI North American Specification (NASPEC) S100-07 with 2010 supplement
- Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCR6-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at www.clarkdietrich.com

Sustainability Credits:

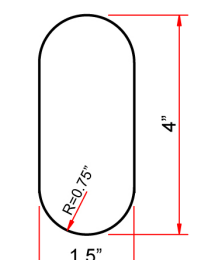
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Project Information	Contractor Information	Architect Information	
Name: Address:	Name: Contact: Phone: Fax:	Name: Contact: Phone: Fax:	



Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



Structural Punchout

East market punchout spacing: 12" from lead end then 24" o.c.

West market punchout spacing: 24" from lead end then 24" o.c.

Product category: S137 (1-3/8" Flange Structural Stud)
Product name: 3025317-43 (33ksi, CP60) P - Punched
43mils (18ga) Coating: CP60 per ASTM C955
Color coding: Yellow

Geometric Properties
Web depth 8.000 in
Flange width 1.375 in
Stiffening lip 0.375 in
Design thickness 0.0451 in
Yield strength, Fy 33 ksi
Ultimate, Fu 45.0 ksi

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A) 0.503 in²
Member weight per foot of length 1.71 lbf/ft
Moment of inertia (Ix) 4.138 in⁴
Section modulus (Sx) 1.034 in³
Radius of gyration (Rx) 2.868 in
Gross moment of inertia (Iy) 0.093 in⁴
Gross radius of gyration (Ry) 0.430 in

Effective Section Properties, Strong Axis

Effective Area (Ae) 0.224 in²
Moment of inertia for deflection (Ix) 4.001 in⁴
Section modulus (Sx) 0.896 in³
Allowable bending moment (Ma) 17.70 in-k
Allowable moment based on distortion buckling (Mad) 15.78 in-k
Allowable shear force in web (solid section) 1051 lb
Allowable shear force in web (perforated section) 1051 lb
Unbraced length (Lu) 32.2 in

Torsional Properties

St. Venant torsion constant (J x 1000) 0.341 in⁴
Warping constant (Cw) 1.214 in⁶
Distance from shear center to neutral axis (Xo) -0.693 in
Distance between shear center and web centerline (m) 0.454 in
Radii of gyration (Ro) 2.979 in
Torsional flexural constant (Beta) 0.947

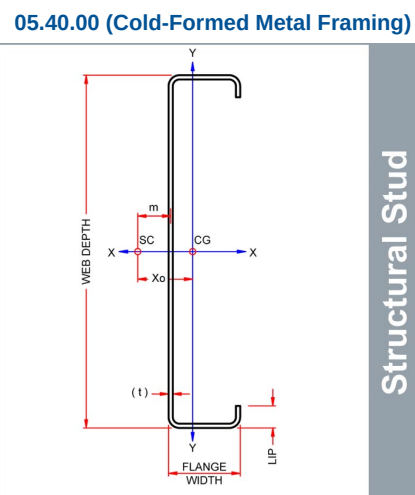
ASTM & Code Standards:

- AISI North American Specification (NASPEC) S100-07 with 2010 supplement
- Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCR6-0206
- For installation & storage information refer to ASTM C1007
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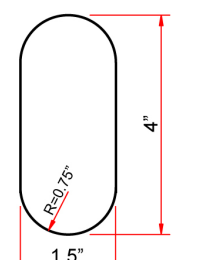
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Project Information	Contractor Information	Architect Information	
Name: Address:	Name: Contact: Phone: Fax:	Name: Contact: Phone: Fax:	



Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



Structural Punchout

East market punchout spacing: 12" from lead end then 24" o.c.

West market punchout spacing: 24" from lead end then 24" o.c.

Product category: S162 (1-5/8" Flange Structural Stud)
Product name: 12005162-97 (50ksi, CP60) P - Punched
97mils (12ga) Coating: CP60 per ASTM C955
Color coding: Red

Geometric Properties
Web depth 12.000 in
Flange width 1.625 in
Stiffening lip 0.500 in
Design thickness 0.1017 in
Yield strength, Fy 50 ksi
Ultimate, Fu 65.0 ksi

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A) 1.576 in²
Member weight per foot of length 5.36 lbf/ft
Moment of inertia (Ix) 26.977 in⁴
Section modulus (Sx) 4.496 in³
Radius of gyration (Rx) 4.138 in
Gross moment of inertia (Iy) 0.331 in⁴
Gross radius of gyration (Ry) 0.459 in

Effective Section Properties, Strong Axis

Effective Area (Ae) 0.699 in²
Moment of inertia for deflection (Ix) 26.738 in⁴
Section modulus (Sx) 4.091 in³
Allowable bending moment (Ma) 111.38 in-k
Allowable moment based on distortion buckling (Mad) 8147 lb
Allowable shear force in web (solid section) 7411 lb
Allowable shear force in web (perforated section) 29.5 in

Torsional Properties

St. Venant torsion constant (J x 1000) 5.433 in⁴
Warping constant (Cw) 10.331 in⁶
Distance from shear center to neutral axis (Xo) -0.693 in
Distance between shear center and web centerline (m) 0.470 in
Radii of gyration (Ro) 4.220 in
Torsional flexural constant (Beta) 0.973

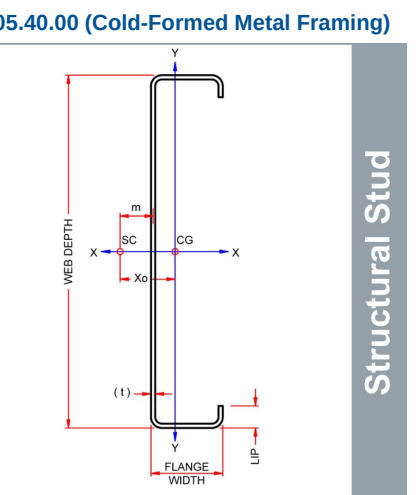
ASTM & Code Standards:

- AISI North American Specification (NASPEC) S100-12
- Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCR6-0206
- For installation & storage information refer to ASTM C1007
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Sustainability Credits:

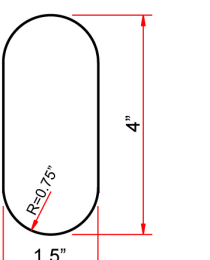
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Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



Structural Punchout

East market punchout spacing: 12" from lead end then 24" o.c.

West market punchout spacing: 24" from lead end then 24" o.c.

SQUARE MOLDED & PULTRUDED FIBERGLASS GRATING LOAD TABLE
ISOPHTHALIC POLYESTER RESIN



MOVING OBJECTS EXERT HEAVIER WEIGHT THAN THEIR ACTUAL STANDING WEIGHT

SPAN	FIBERGLASS TYPE	200 LBS	300 LBS	500 LBS	1000 LBS	MAX LOAD
18"	SQUARE MOLDED	0.03	0.05	0.08	0.15	1,733 LBS
24"	PULTRUDED	0.006	0.009	0.015	0.030	2,250 LBS
30"	SQUARE MOLDED	0.07	0.10	0.17	0.350	1,300 LBS
36"	PULTRUDED	0.018	0.027	0.046	0.095	1,700 LBS
42"	SQUARE MOLDED	0.12	0.18	0.300	---	1,033 LBS
48"	PULTRUDED	0.043	0.065	0.108	0.220	1,340 LBS
54"	SQUARE MOLDED	0.21	0.32	0.55	---	867 LBS
60"	PULTRUDED	0.087	0.131	0.218	0.440	1,130 LBS

FLAT TOP LOAD TABLE SIMILAR TO SQUARE MOLDED



Technical Information

MFMB Building Products Corp. manufactures a wide range of innovative waterproofing products for the building industry. With more than 50 years of field experience, MFMB products are engineered for superior performance and ease of installation.

DESCRIPTION
Peel & Seal® is a patented laminate of reflective aluminum foil, rugged, cross-linked polymer films, and a thick layer of butyl-based asphalt. The asphalt compound adheres to most surfaces and substrates around most punctures, forming a protective waterproof barrier. A high-quality release liner is applied to protect the adhesive surface until installation.

USES
Peel & Seal® may be used anywhere a fast, dependable waterproofing barrier is needed and is ideal for roofing, patching, gutter repair, flashing, and general waterproofing where the membrane will be exposed. Designed for low-slope roof applications, it is ideal for mobile homes, trailers, RVs, and sun rooms. No glue, torches, tapes or fasteners are required - only a utility knife and a large push or hand roller are needed for installation.

- FEATURES**
- For roofing, waterproofing, patching and repair
 - Adheres directly to roof deck or substrate
 - Aluminum surface reflects heat lowering utility costs
 - Easy to install, low cost and labor saving
 - Lightweight and easy to handle
 - Tough and durable - puncture and abrasion resistant
 - Stretches to allow for building movement and conforms to odd shapes
 - Requires no coating or covering for exposure to sunlight

INSTALLATION
This is a summary of how the product is installed. FOLLOW APPLICATION INSTRUCTIONS ON THE CARTON.
General Installation: The surface to receive Peel & Seal® must be clean, smooth, dry and free from oil, grease, solvents or debris - these interfere with proper adhesion. Apply in fair weather at temperatures above 50°F. Minimum slope of 1/2" per foot is required. Not required for areas with ponding water.

Peel & Seal® is easily installed by removing the release liner and pressing into place. Cut to fit with a utility knife. Peel & Seal® is pressure sensitive. Apply maximum pressure uniformly over entire membrane using a large ball or hand roller. Peel & Seal® adheres to the deck and to itself when overlapped. Seams and overlaps must be firmly rolled with a hand roller.

When overlapping, 3" side laps and 6" end laps are required. Masonry, concrete, OSB, weathered wood, and rusted metal should be primed first with an asphalt-based primer. To improve adhesion, use MFMB Spray Adhesive™ as needed. When installing over EPDM, the surface must be primed with "WeatherBond™" Multi-Purpose primer.

When installing over silicone caulks, sealants or petroleum-based materials, allow any solvents to fully cure. Masonry should also be fully cured. Installer is responsible for compatibility with caulks and sealants.

For the most current installation instructions, Warranties, Technical Specifications and Approvals, visit www.mfmb.com.

Peel & Seal® is protected by U.S. Patent Nos. 4,936,938; 5,098,759 and 5,142,837. "WeatherBond" is a trademark of WeatherBond.

Connectors for Cold-Formed Steel Construction
S/JCT and S/HJCT Steel-Joist Connectors

This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

The S/JCT and S/HJCT are unique, skewable steel-joist framing connectors that combine strength, versatility and low installed cost. The connectors can be used with CFS headers, wood headers, steel beams (with welds or PAF fasteners) and masonry walls. Installed cost is minimized since these products are easier than using existing connectors, simplifying the need for web stiffeners. The connectors also feature horizontal tabs that facilitate top flange alignment and joist support during shear installation.

Material: S/JCT - 68 mil (14 ga) S/HJCT - 57 mil (12 ga)
Finish: Galvanized

- Features:**
- Uni-directional: Joist can be attached from left or right
 - One size fits joists 8" through 14" deep
 - Optional holes for additional load capacity
 - Simplicity of design
 - Quick and easy installation
 - Field skewable up to 45° left or right

Installation:
• Attach hanger with specified fasteners. Use round holes for minimum load, use round and triangle holes for maximum load.
• May be used for weld-on applications. The minimum required weld to the top flange is 1/4" x 2 1/2" fillet weld to each side of top flange. Consult the code for special considerations when welding galvanized steel.
• May be installed using PDPAT-62KP (0.157" x 1/4") powder-actuated fasteners. Steel headers with thicknesses between 1/4" and 1/2" having a minimum Fy = 36 ksi. A Red level (R) or Purple level (P) powder load may be required to achieve specified penetration (p). See illustration on p. 253.

Joist Framing

Attached to CFS Header: 54 mil (16 ga.) - Straight Hanger		Lower	res.		
S/JCT (min.)	(1) #10	(2) #10	(4) #10	940	1,195
S/JCT (max.)	(1) #10	(4) #10	(4) #10	1,435	2,165
S/HJCT (min.)	(2) #10	(4) #10	(4) #10	1,520	2,620
S/HJCT (max.)	(2) #10	(4) #10	(4) #10	1,670	3,650
Attached to CFS Header: 54 mil (16 ga.) - Skewed Hanger					
S/JCT (min.)	(1) #10	(2) #10	(4) #10	940	1,135
S/JCT (max.)	(1) #10	(4) #10	(4) #10	940	1,165
S/HJCT (min.)	(2) #10	(4) #10	(4) #10	1,510	2,600
Attached to Steel Header - Straight and Skewed Hanger					
S/JCT (min.)	1/2" x 2 1/2" flat steel to each side of top flange			940	
S/HJCT (min.)	1/2" x 2 1/2" flat steel to each side of top flange			1,450	
S/JCT (min.) Skew	(2) 0.157" x 1/2"			1,285	
S/JCT (min.)	(2) 0.157" x 1/2"			145	750
S/HJCT (min.)	powder actuated fastener ¹			195	1,185
Attached to Masonry - Straight and Skewed Hanger					
S/JCT (min.)	(1) 1/2" x 2 1/2" Tensar	(4) 1/2" x 2 1/2" Tensar	710	1,765	
S/HJCT (min.) Skew	(1) 1/2" x 2 1/2" Tensar	(4) 1/2" x 2 1/2" Tensar	710	1,410	

S/JCT Installation with a 1/2 x 2 1/2 Header

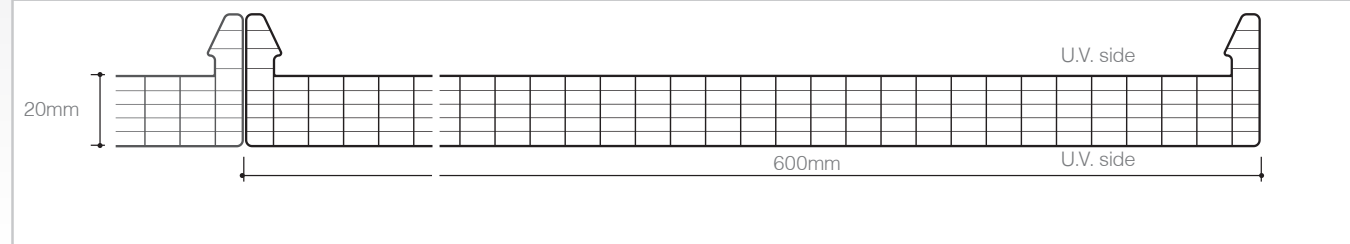
1 Allowable loads are based on a minimum of single 54 mil (16 ga.) CFS joist member. CFS joist shall be tested and approved by the manufacturer.

2.2
MODULAR
CONNECTOR SYSTEMS

arcoPlus®
Reverso 626



PROFILE



Modular system
of bi-protected
multiwall
polycarbonate for
translucent roofing
applications



LIGHT MANAGEMENT

PRODUCT AVAILABLE
WITH IR AND AR TREATMENT

PRODUCTION STANDARDS

thickness	20mm
structure	6 walls
effective modular width	600mm
panel length	no limit
colours available	see page 11

TECHNICAL FEATURES

Thermal insulation	1.7 W/m²K
Acoustic insulation	20 dB
Linear thermal expansion	0.065mm/m°C
Temperature range	-40°C +120°C
U.V. rays protection	2 sides Coextrusion
Fire reaction EN 13501	EuroClass B-s1,d0

DESCRIPTION

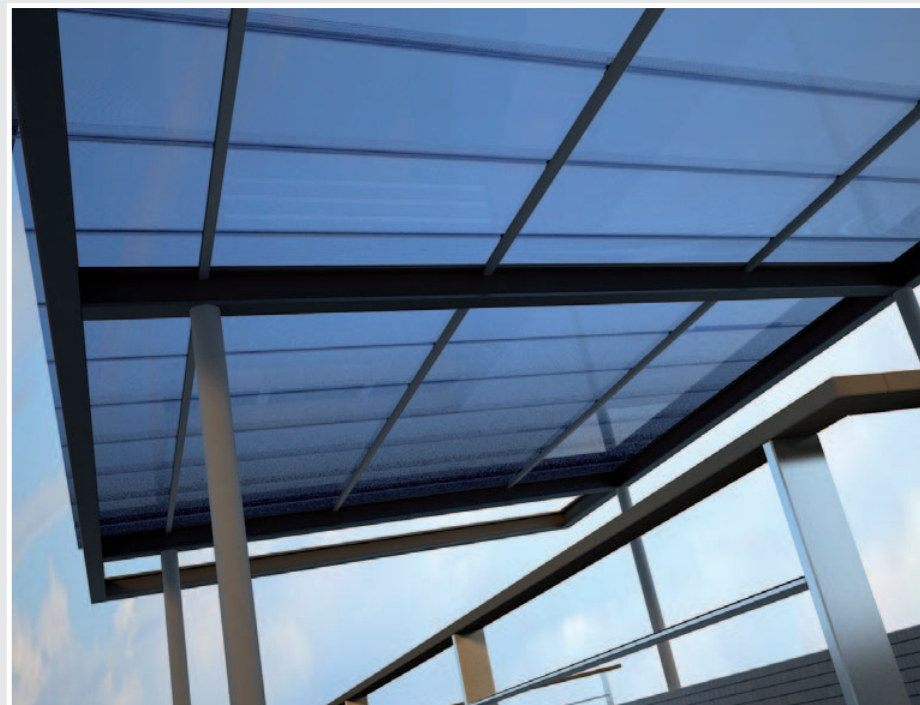
arcoPlus®626 reverso is a modular system of coextruded six-wall polycarbonate panels with a thickness of 20mm. These are fixed to the existing structure using specific anchor brackets. The panels are joined together by a protected polycarbonate cover plate assembled using a click-on system, or by an aluminium connector, for a perfectly watertight seal.

ADVANTAGES

- Easy and low-cost installation
- Light transmission
- Resistance to U.V. rays and to hail
- Heat insulation
- Bendability R.min=2,5m

APPLICATIONS

- Roofing
- Curved roofing
- Bardages verticaux



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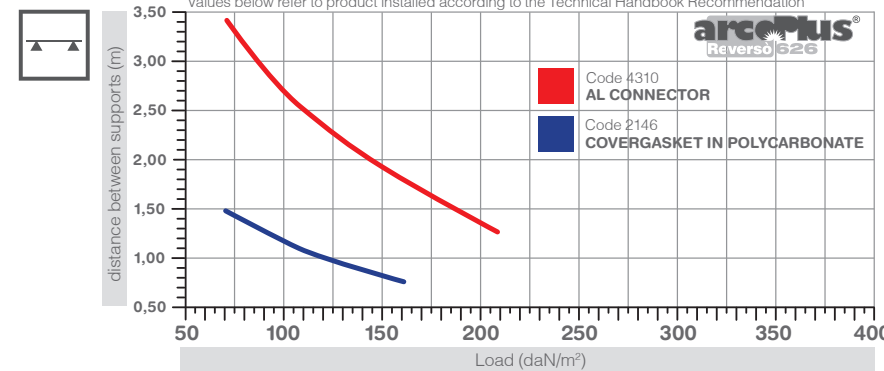
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info@gallina.it

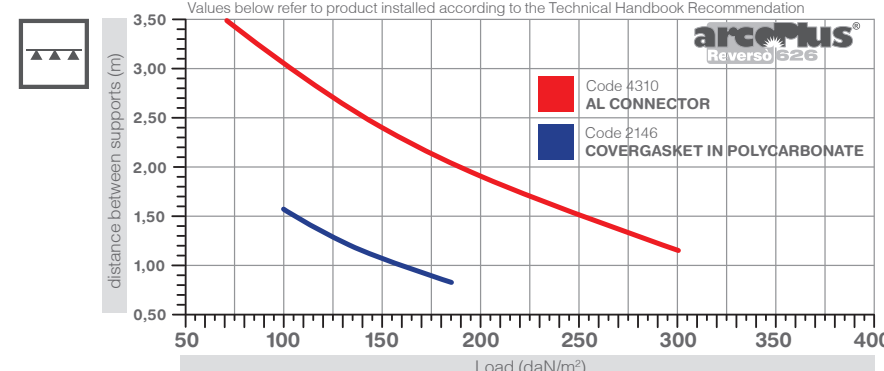


FLAT SYSTEM
LOAD RESISTANCE

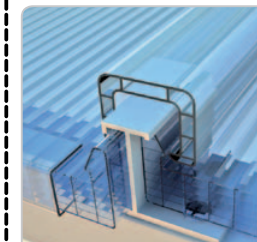
Maximum loads on two supports



Maximum loads on more supports



SYSTEM WITH ALUMINIUM
CONNECTOR CODE 4310



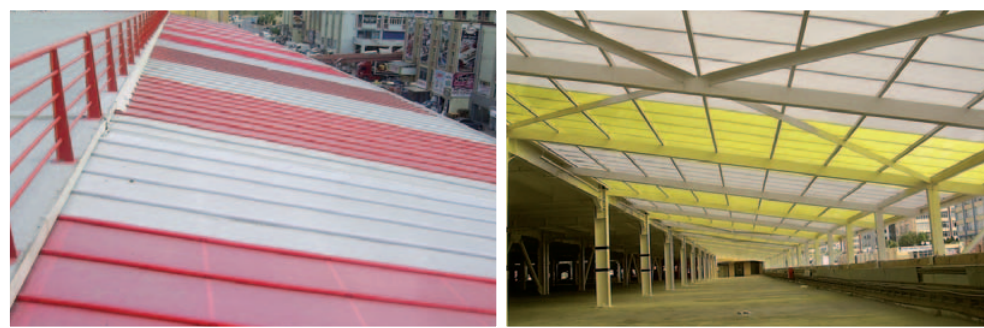
SYSTEM WITH POLYCARBONATE
COVERGASKET CODE 2146

EASY AND LOW-COST
INSTALLATION

To ensure compliance with snow load and negative wind load resistance requirements, anchor brackets should be fitted for each purlin. The polycarbonate panels are fastened to the underlying structure using specific brackets, which must be anchored to the purlins using suitable self-drilling/self-tapping screws (on

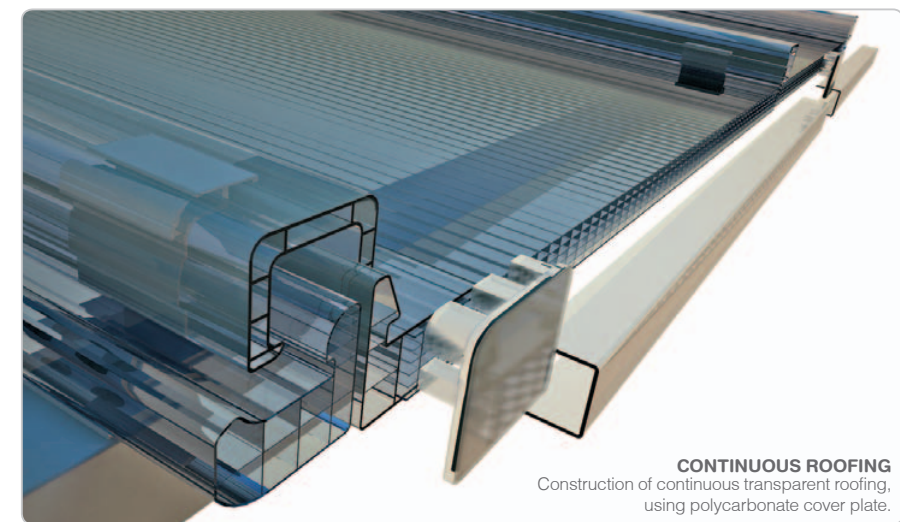
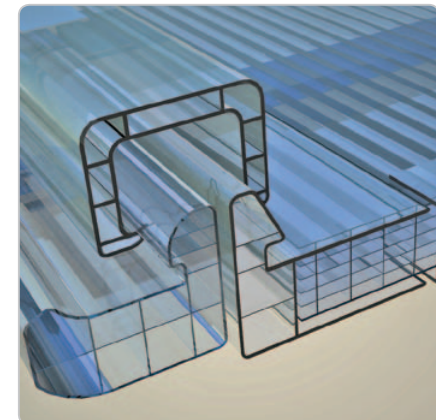
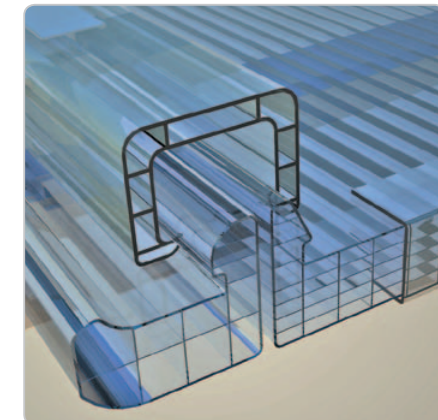
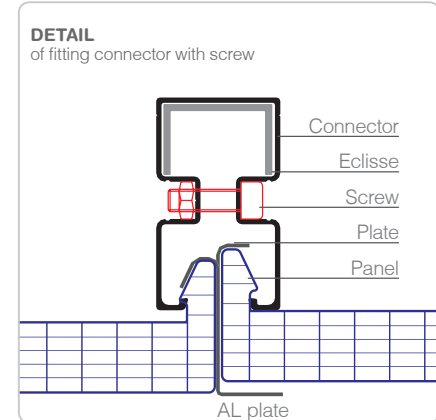
metal structures) and tap bolts (for wooden structures). These screws and bolts are not supplied. Different connector profiles can be used, depending on the required load specifications.

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COMPLETE
ROOFING SYSTEM

Modular multiwall polycarbonate panels for the construction of flat or curved roofing. The panels are anchored to the supporting structure using specific aluminium brackets to guarantee load strength. Depending on the load capacity values required, or the distance between the purlins of the underlying structures, either polycarbonate cover plates can be used or, for greater strength, aluminium connectors.



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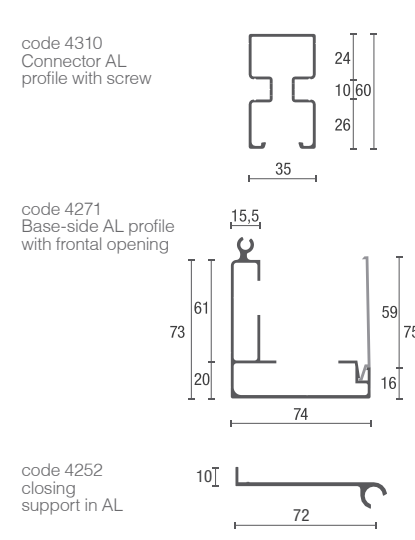
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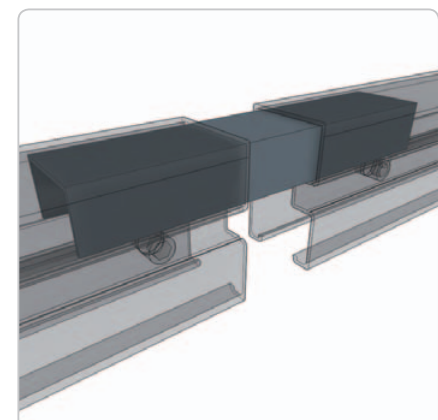
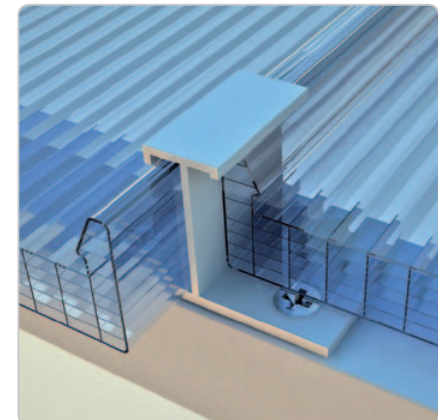
ACCESSORIES

The arcoPlus® system includes a complete range of accessories to facilitate installation. The air cells of the panels must be sealed using a specific polycarbonate profile or vented aluminium breather tape. This allows correct ventilation and prevents soiling on the inside.

METAL PROFILES



ACCESSORIES



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REVISIONS	DESCRIPTION	DATE
ID	0	05/03/2023
FOR PERMIT		

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MODERNWASH
5220 SCOTTSDALE ROAD
BOWLING GREEN, KY 42104

**MODEL: AXIOM BETA
RETAIL TOWER
2023**

34 OF 39

DELPRO^{1238™}
1638™
INTERLOCKING PVC PANEL

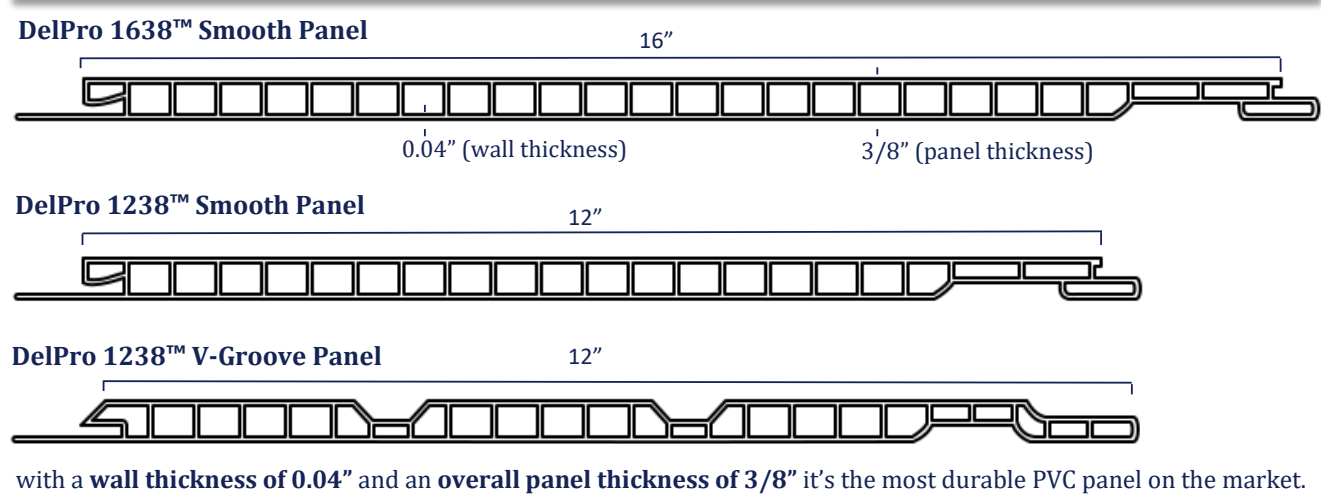
• AGRICULTURAL • INDUSTRIAL • COMMERCIAL • RESIDENTIAL •



• ABOUT DELPRO 1238™ AND DELPRO 1638™ •

- Distinctive Tongue and Groove System
- Quick and Easy Installation
- Low Maintenance
- Easy to Clean
- Economical
- No Painting Required
- Bright White, Extremely Smooth Panels
- Made with 100% Exterior Grade Virgin PVC Formula
- tried and tested for two decades
- CFIA Approved
- Hidden Fastener
- CAN ULC S102.2 Fire Rating Approved
- 12" and 16" Wide Panels
- 25 Year Warranty

• SPECIFICATIONS •



with a wall thickness of 0.04" and an overall panel thickness of 3/8" it's the most durable PVC panel on the market.

INSTALL GUIDE:
ACM/FIBER CEMENT PANELS 1



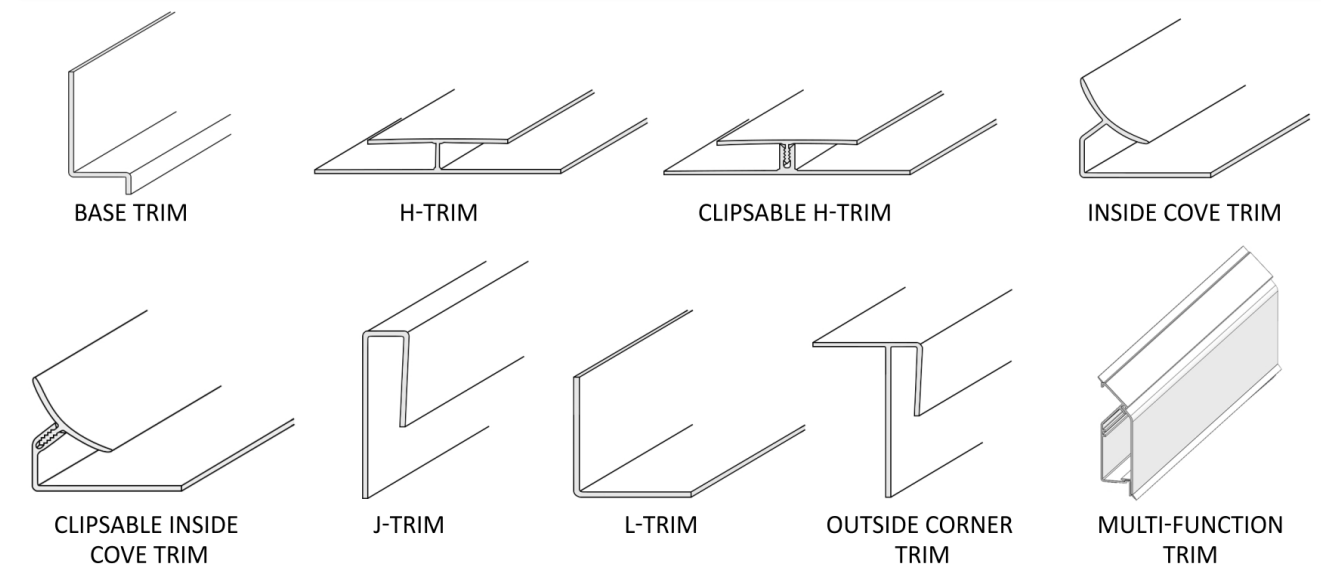
INSTALL GUIDE:
ACM/FIBER CEMENT PANELS 2



• ENJOY THE STRENGTH • • DISCOVER THE BEAUTY •

Our panels provide an efficient and a stylish finish for walls and ceilings. DelPro 1238™ and DelPro 1638™ a durable cladding for walls and ceilings, particularly in damp areas. With a strong resistance to color change and fading, DelPro 1238™ and DelPro 1638™ will neither delaminate, rot, nor absorb water.

• DELPRO 1238™ AND DELPRO 1638™ TRIM •



• WHY A PANEL THICKNESS OF 3/8" IS BETTER THAN 1/2" •

In the PVC wall paneling industry, unlike lumber, thicker is not always better. The interior walls and the space between the front and back wall of the panel, are the weaker parts of the overall design. If you increase this space (the thicker the panel, the more you stretch the interior wall), you have now effectively decreased the overall impact strength of your panel. Therefore, a 3/8" panel is much stronger and longer lasting than a 1/2" panel.

• WHY DELPRO 1238™ AND DELPRO 1638™ AREN'T WIDER THAN 16" •

If you have weight or tension on the panel (insulation or an angled fastener) it creates pressure between both ends and eventually the panel starts to bow or sag. In the PVC paneling industry, it is proven that 16" is the best and maximum width to use. Delpro 1238™ and Delpro 1638™ are easily able to withstand these pressures and will not bow or sag.



Find out more at www.delpro1638.com



Phone: 1-877-553-3632
Fax: 1-877-264-9025

sales@delcan.ca
www.delcanproducts.com

INSTALL GUIDE:
MCELROY METAL WAVE PANELS



INSTALL GUIDE:
PVC PANELS



INSTALL GUIDE:
POLYCARBONATE ROOF SYSTEM



MT-13

STRETCH OUT: 3"

1" ZEE CLOSURE

MW-1

STRETCH OUT: 5"

CLOSED HEMS
L-TRIM - OUTSIDE (ADJ.)

MW-197

STRETCH OUT: 27 3/4"

GUTTER 5 (ADJ.)

MW-285

STRETCH OUT: 19 1/4"

Z-TRIM (ADJ.)

MT-35

A

STRETCH OUT: 9 1/2"

STANDARD HEADWALL TRIM

MW-14

A

STRETCH OUT: 8 1/2"

DRIP TRIM - TOP OF WALL (ADJ.)

MW-197

B

STRETCH OUT: 27 3/4"

GUTTER 5 (ADJ.)

MW-285

C

STRETCH OUT: 4 1/4"

Z-TRIM (ADJ.)

MT-37

STRETCH OUT: 2"

STANDARD CLEAT

MW-15

A

STRETCH OUT: 7 3/4"

CLOSED HEMS
ANGLED TRANSITION ZEE (ADJ.)

MW-219

A

STRETCH OUT: 7"

CEILING TRIM - HIGH END (ADJ.)

MW-287

A

STRETCH OUT: 11"

OPEN HEM
COLUMN WRAP CAP (ADJ.)

MT-62

A

STRETCH OUT: 24"

GUTTER

MW-24

A

STRETCH OUT: 7 5/8"

CLOSED HEM
DRIP TRIM - PARAPET (ADJ.)

MW-220

A

STRETCH OUT: 7"

CEILING TRIM - LOW END (ADJ.)

MW-291

A

STRETCH OUT: 12"

GUTTER SUPPORT STRAP (ADJ.)

MT-62D

ATTACH MW-147 & MW-166 PRIOR TO INSTALLING GUTTER ON BUILDING.

GUTTER ASSEMBLY DETAIL

MW-24

B

STRETCH OUT: 14 1/8"

CLOSED HEM
DRIP TRIM - PARAPET (ADJ.)

MW-264

A

STRETCH OUT: 12"

VERTICAL BAND TRIM (ADJ.)

MW-291

B

STRETCH OUT: 12"

GUTTER SUPPORT STRAP (ADJ.)

MT-177

A

STRETCH OUT: 7 7/8"

2" SILL TRIM

MW-24

C

STRETCH OUT: 8 5/8"

CLOSED HEM
DRIP TRIM - PARAPET (ADJ.)

MW-175

STRETCH OUT: 2 1/2"

CLOSED HEM
MTSJ - MATRIX SOFFIT J-TRIM

MT-193

STRETCH OUT: 3 5/8"

WAVE CLIP

MW-147

A

STRETCH OUT: 7 1/2"

RUN: 2"
A: 5 1/2"
B: 90°
GUTTER SUPPORT STRAP (ADJ.)

MW-285

A

STRETCH OUT: 26 1/2"

Z-TRIM (ADJ.)

REVISIONS

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BOWLING GREEN, KY 42104

MODEL: AXIOM BETA
RETAIL TOWER
2023

35 OF 39

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081

USE QR CODE FOR MOST CURRENT PROJECT DRAWINGS.

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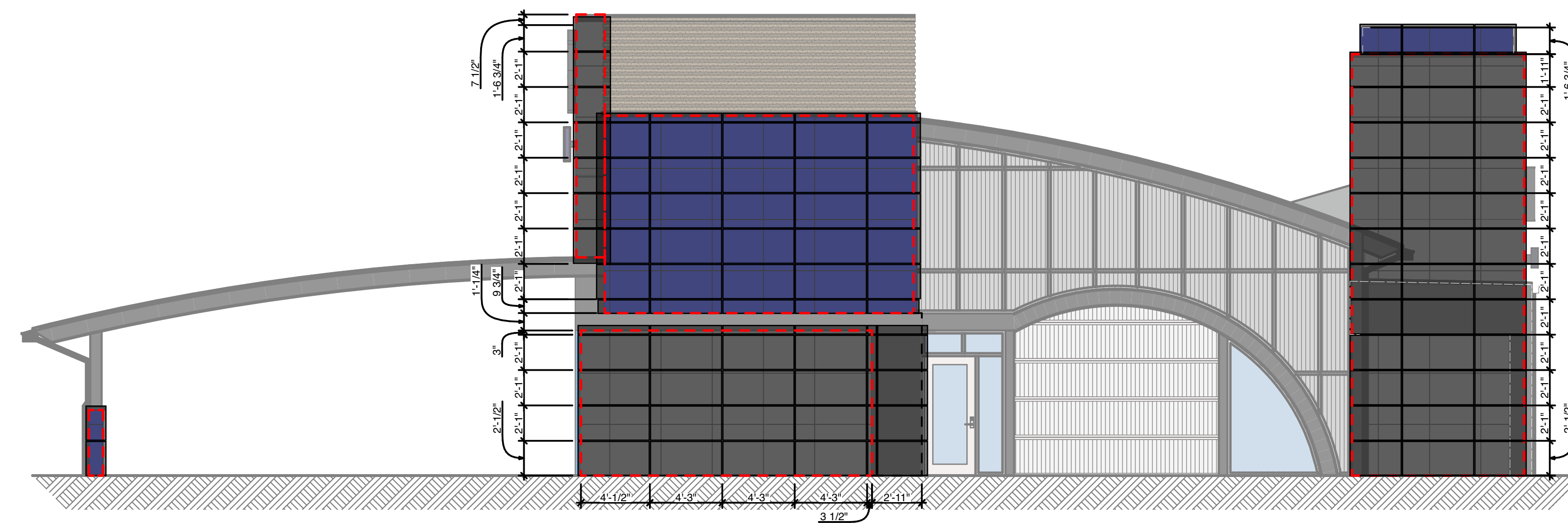
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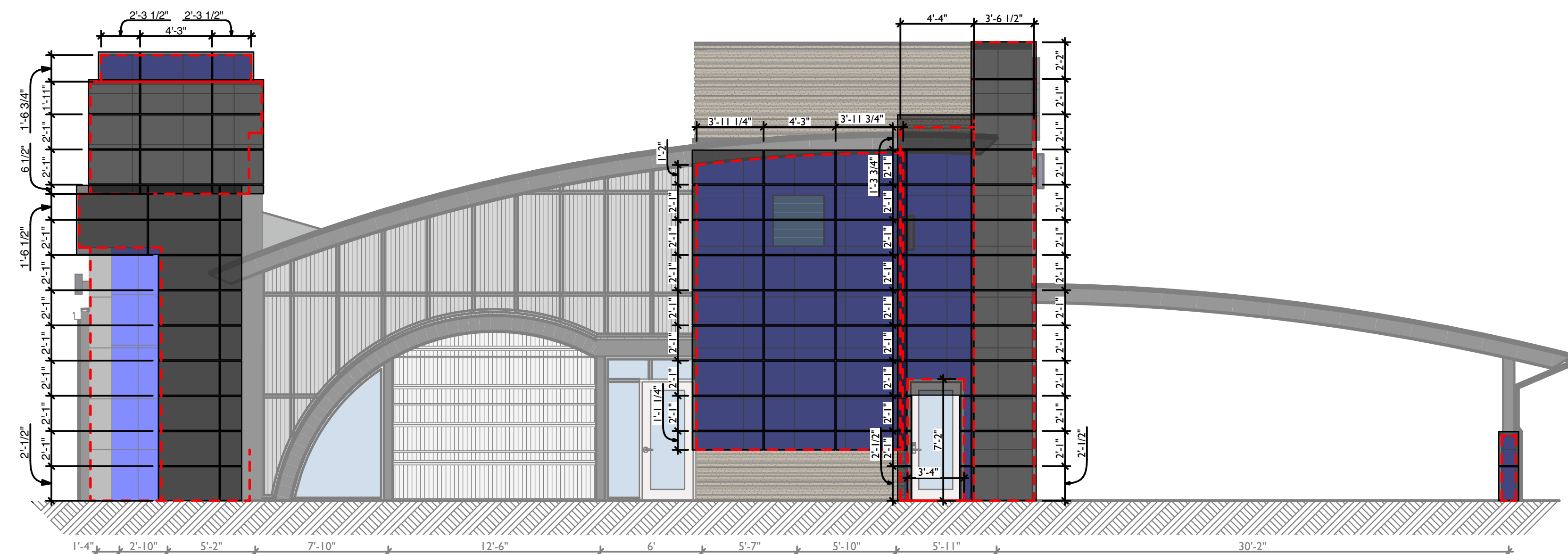
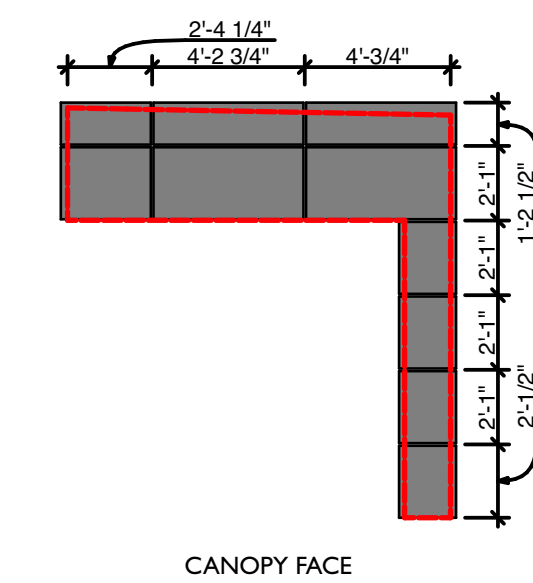
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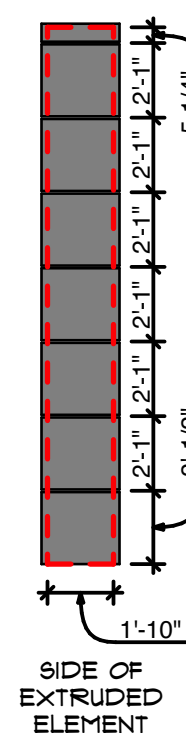
FLASHING/TRIM



B ELEVATION - EAST
SCALE: 3/16" = 1'-0"



F **ELEVATION - WEST**
SCALE: 3/16" = 1'-0"

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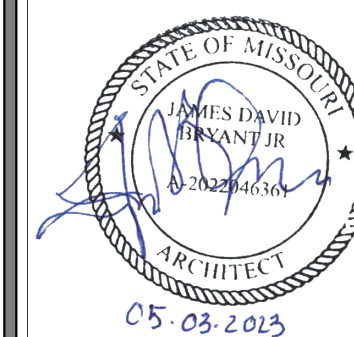
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RETAIL TOWER
2023**

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NEW CAR WASH FOR:

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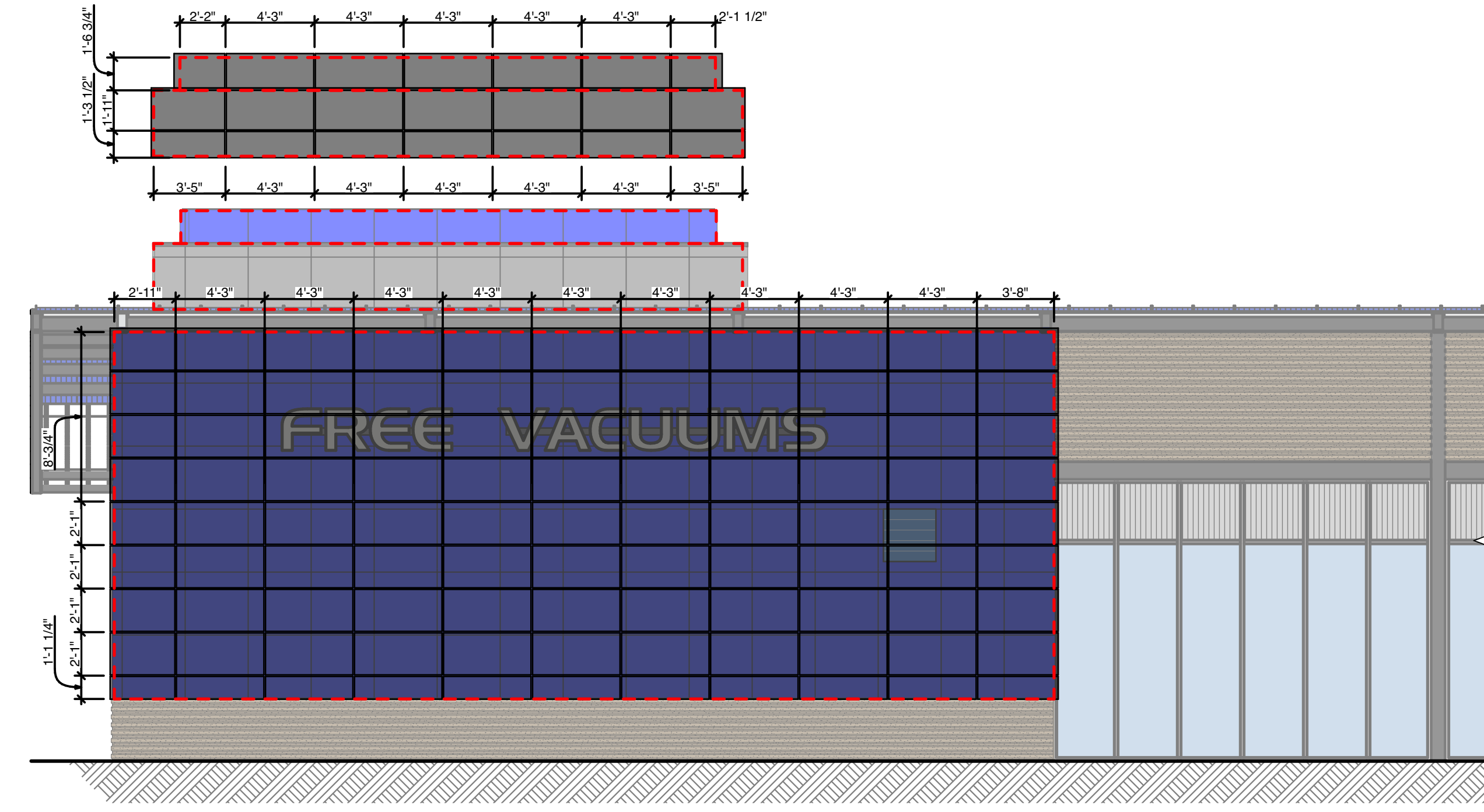
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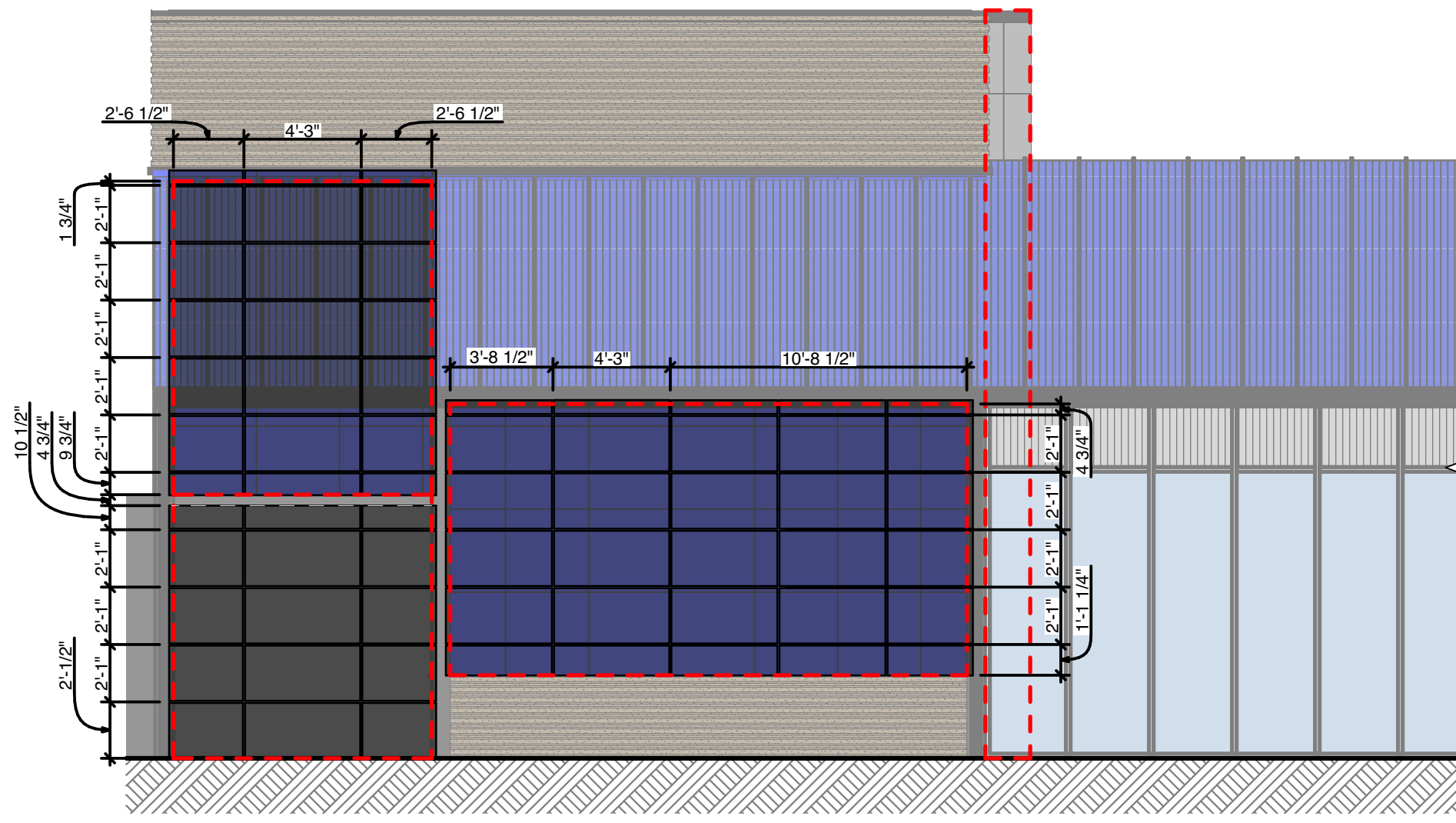
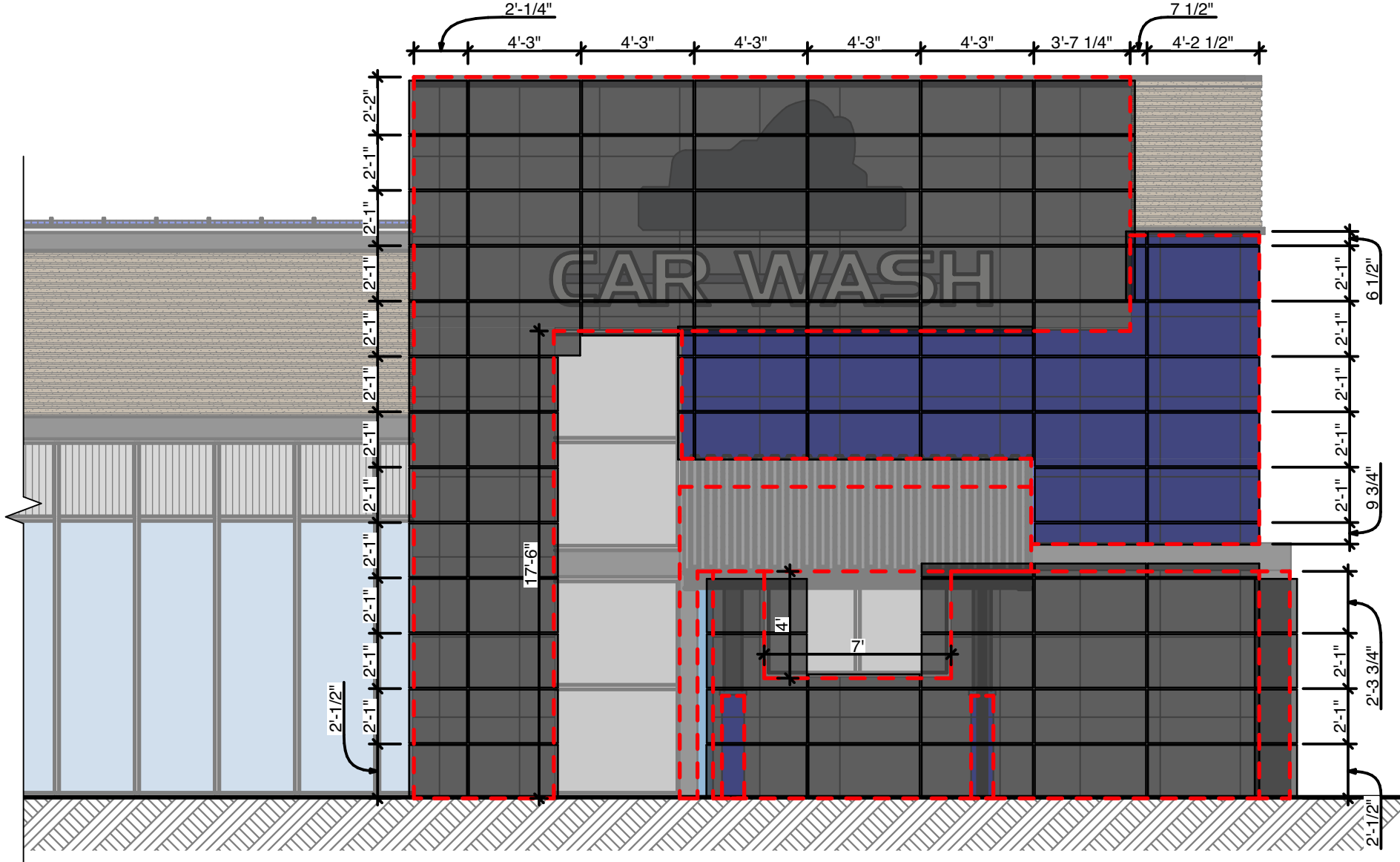
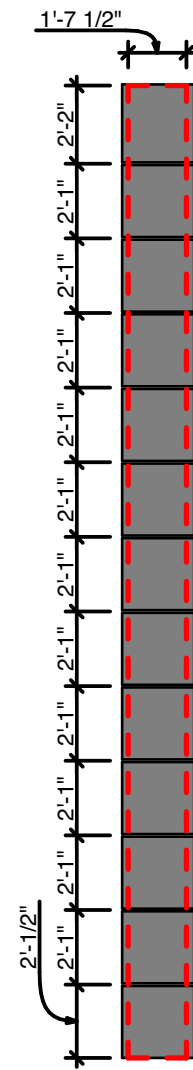
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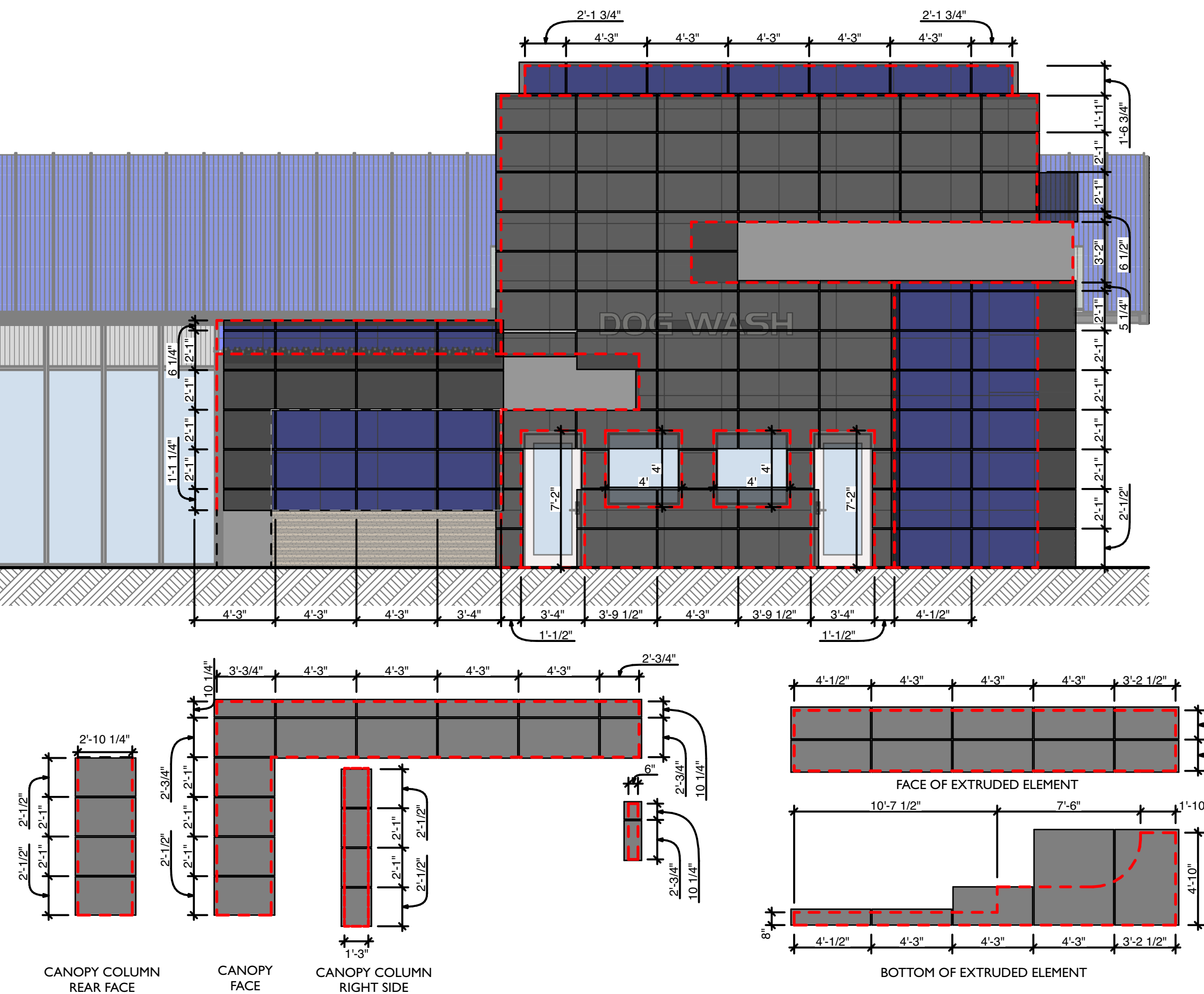
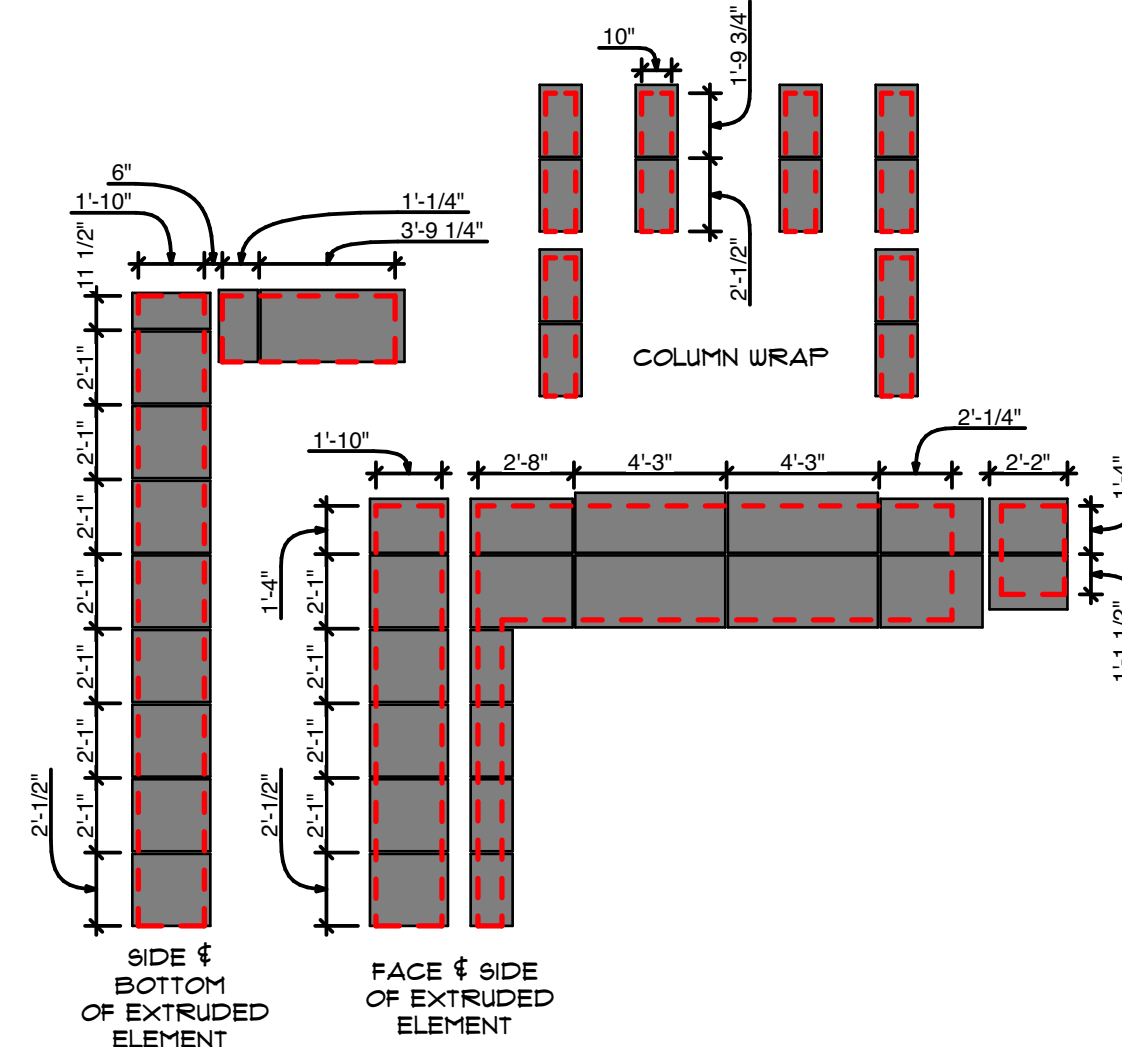
EIFS GRID LAYOUT



A ELEVATION - SOUTH
SCALE 3/16" = 1'-0"



K ELEVATION - NORTH
SCALE 3/16" = 1'-0"



REVISIONS		
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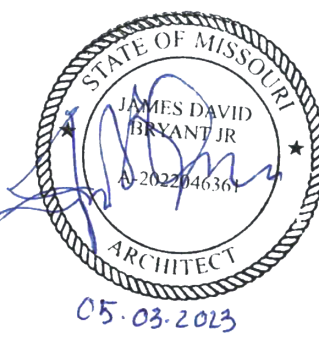


MODEL: AXIOM BETA
RETAIL TOWER
2023

NEW CAR WASH FOR:

TUNNEL VISION CAR WASH

20 SE THOMPSON DR
LEE'S SUMMIT, MO 64081



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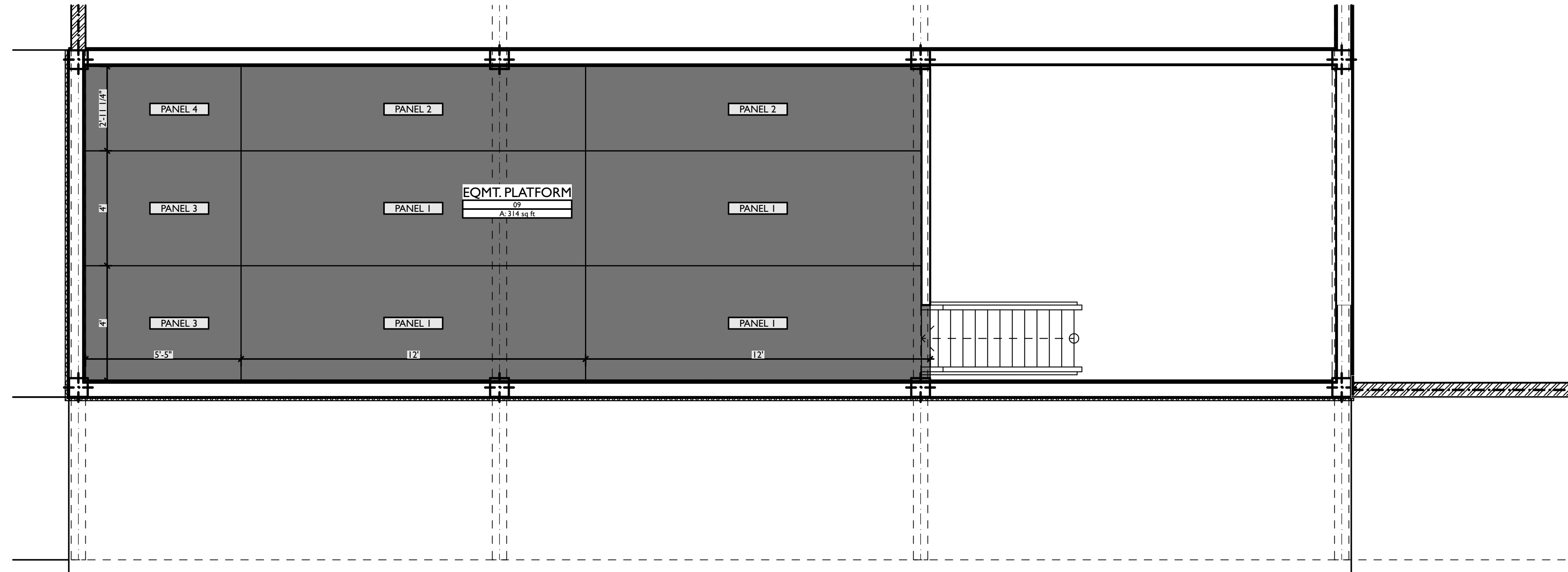
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EIFS GRID LAYOUT

PANEL 1 - 4'X12' - 4 TOTAL
PANEL 2 - 2'-11 1/4" X12' RIP TO SIZE - 2 TOTAL
PANEL 3 - 4' X 5'-5" RIP TO SIZE - 2 TOTAL
PANEL 4 - 2'-11 1/4" X 5'-5" RIP TO SIZE - 1 TOTAL
PANEL CLIPS - INSTALL 4 CLIPS PER LONG SIDE OF PANEL - 60 SUPPLIED
NOTE: PANELS ARE SUPPLIED IN FULL SIZE. PANELS 2, 3, AND 4 ARE TO BE CUT-TO-FIT FROM FULL SIZE PANELS ON LAYOUT PROVIDED.



A GRATING LAYOUT - EQUIPMENT PLATFORM



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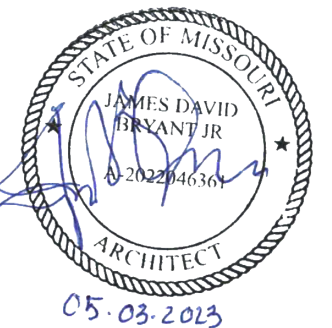
MW-9.4

EQUIP. GRATING LAYOUT

NEW CASH FLOW.

TUNNEL VISION CAR WASH

20 SETHOMPSON DR
LEE'S SUMMIT, MO 64081



05.03.2023



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**MODEL: AXIOM BETA
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2023**

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